

5) The two correlation random variables which one is the arcsin probability distribution and the other is normal probability distribution, The both of population variances test statistic.

$$(X_{1i}, X_{2i}), i = 1, 2, \dots, n,$$

$$X_{11}, \dots, X_{1n} \stackrel{id}{\sim} \text{Arc sin}(\mu_1 = 1, c_1 = \sqrt{2} = 1.414213562),$$

$$X_{21}, \dots, X_{2n} \stackrel{id}{\sim} N(\mu_2 = 0, \sigma_2^2 = 1),$$

$$X_{1i} \sim \text{Uniform}(\alpha_1 = -1.732050807568877, \beta_1 = 1.732050807568877),$$

$$E(X_{1i}) = 0, \text{Var}(X_{1i}) = 1,$$

$$X_{2i} \sim N(E(X_{2i}|X_{1i} = x_{1i}) = \rho \times x_{1i}, \text{Var}(X_{2i}|X_{1i} = x_{1i}) = (1 - \rho^2) \times \sigma_2^2),$$

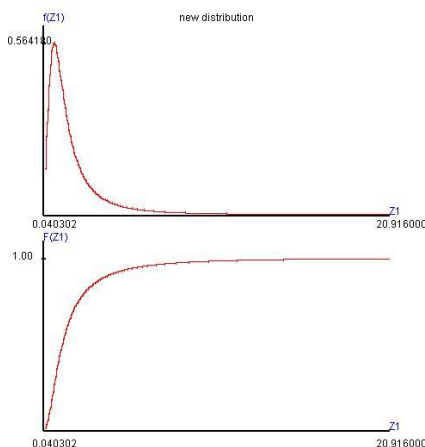
$$i = 1, \dots, n,$$

$$S_1^2 = \frac{\sum_{i=1}^n (X_{1i} - \bar{X}_1)^2}{n-1}, \bar{X}_1 = \frac{\sum_{i=1}^n X_{1i}}{n}, S_2^2 = \frac{\sum_{i=1}^n (X_{2i} - \bar{X}_2)^2}{n-1}, \bar{X}_2 = \frac{\sum_{i=1}^n X_{2i}}{n}$$

$$H_0 : \sigma_1^2 = \sigma_2^2, H_1 : \sigma_1^2 \neq \sigma_2^2, \text{test statistic} = \frac{S_1^2}{S_2^2}$$

5.1)n=5, $\rho=0.1$

$f_Z(z), F_Z(z)$



Coefficient

| | |
|--------------------|---------------|
| Mathematical Mean: | 1.99590 |
| Geometrical Mean : | 1.12401 |
| Harmonic Mean : | 0.52452 |
| Variance : | 37.24673 |
| S.D. : | 6.10301 |
| Skewed Coef. : | 585.14030 |
| Kurtosis Coef. : | 1237163.27004 |
| MAD : | 1.61919 |
| Range : | 17353.96716 |
| Mid_range : | 8676.98358 |
| Median : | 1.12153 |
| Q1 : | 0.61119 |
| Q2 : | 1.12153 |
| Q3 : | 2.10376 |
| IQR : | 1.49257 |
| C.V. : | 3.05777 |

the critical value table

| | | | | |
|-------|-------------------|--------------|--------------|--------------|
| | significant level | | | |
| value | 0.995 | 0.99 | 0.975 | 0.95 |
| | 0.0426372130 | 0.0701486255 | 0.1332014932 | 0.2124471879 |

| | | | | |
|-------|-------------------|--------------|---------------|---------------|
| | significant level | | | |
| value | 0.05 | 0.025 | 0.01 | 0.005 |
| | 5.9846709054 | 8.8558789474 | 14.5443049413 | 20.9563416348 |

Note: the critical value table

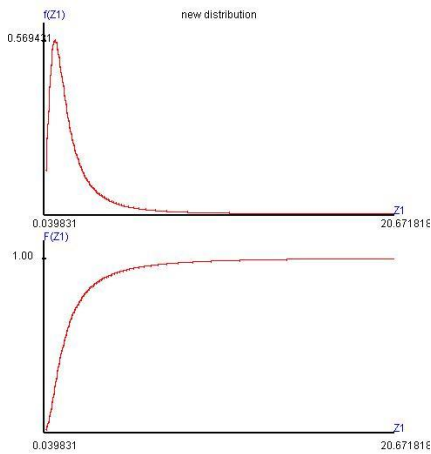
| | |
|--------------|--------------|
| 0.0050000000 | 0.0426372130 |
| 0.0100000000 | 0.0701486255 |
| 0.0150000000 | 0.0934692712 |
| 0.0200000000 | 0.1142256250 |
| 0.0250000000 | 0.1332014932 |
| 0.0300000000 | 0.1508430141 |
| 0.0350000000 | 0.1674821664 |
| 0.0400000000 | 0.1831969417 |
| 0.0450000000 | 0.1981405015 |
| 0.0500000000 | 0.2124471879 |
| 0.0550000000 | 0.2262118495 |
| 0.0600000000 | 0.2394566656 |
| 0.0650000000 | 0.2522464345 |
| 0.0700000000 | 0.2646411945 |
| 0.0750000000 | 0.2766916352 |
| 0.0800000000 | 0.2884076252 |
| 0.0850000000 | 0.2998778800 |
| 0.0900000000 | 0.3110864577 |
| 0.0950000000 | 0.3220574912 |
| 0.1000000000 | 0.3327994753 |
| 0.1050000000 | 0.3433529218 |
| 0.1100000000 | 0.3537244783 |
| 0.1150000000 | 0.3639131992 |
| 0.1200000000 | 0.3739547729 |
| 0.1250000000 | 0.3838858909 |
| 0.1300000000 | 0.3936635024 |
| 0.1350000000 | 0.4033603172 |
| 0.1400000000 | 0.4129300890 |
| 0.1450000000 | 0.4224268901 |
| 0.1500000000 | 0.4318195276 |
| 0.1550000000 | 0.4411696675 |
| 0.1600000000 | 0.4504318766 |
| 0.1650000000 | 0.4596240774 |
| 0.1700000000 | 0.4687534227 |
| 0.1750000000 | 0.4778534272 |
| 0.1800000000 | 0.4868830276 |
| 0.1850000000 | 0.4958877916 |
| 0.1900000000 | 0.5048374456 |
| 0.1950000000 | 0.5137776066 |
| 0.2000000000 | 0.5226843262 |
| 0.2050000000 | 0.5315768089 |
| 0.2100000000 | 0.5404389585 |
| 0.2150000000 | 0.5493069474 |
| 0.2200000000 | 0.5581653340 |
| 0.2250000000 | 0.5670028696 |
| 0.2300000000 | 0.5758294254 |
| 0.2350000000 | 0.5846548083 |
| 0.2400000000 | 0.5934971714 |
| 0.2450000000 | 0.6023448952 |
| 0.2500000000 | 0.6111901308 |
| 0.2550000000 | 0.6200584842 |
| 0.2600000000 | 0.6289656043 |
| 0.2650000000 | 0.6378562133 |
| 0.2700000000 | 0.6467954696 |
| 0.2750000000 | 0.6557557037 |
| 0.2800000000 | 0.6647066107 |
| 0.2850000000 | 0.6737200126 |
| 0.2900000000 | 0.6827774257 |
| 0.2950000000 | 0.6918226655 |
| 0.3000000000 | 0.7009297545 |
| 0.3050000000 | 0.7100931095 |
| 0.3100000000 | 0.7192755875 |
| 0.3150000000 | 0.7285290467 |
| 0.3200000000 | 0.7377936996 |
| 0.3250000000 | 0.7471068074 |
| 0.3300000000 | 0.7564848096 |
| 0.3350000000 | 0.7658722510 |
| 0.3400000000 | 0.7753248126 |
| 0.3450000000 | 0.7848404721 |
| 0.3500000000 | 0.7944048189 |
| 0.3550000000 | 0.8040447094 |
| 0.3600000000 | 0.8137533219 |
| 0.3650000000 | 0.8235444505 |
| 0.3700000000 | 0.8333896411 |
| 0.3750000000 | 0.8432876735 |

| | |
|--------------|--------------|
| 0.3800000000 | 0.8532603715 |
| 0.3850000000 | 0.8633131093 |
| 0.3900000000 | 0.8734485536 |
| 0.3950000000 | 0.8836312425 |
| 0.4000000000 | 0.8939049948 |
| 0.4050000000 | 0.9043019173 |
| 0.4100000000 | 0.9148115829 |
| 0.4150000000 | 0.9253416836 |
| 0.4200000000 | 0.9359887508 |
| 0.4250000000 | 0.9466997955 |
| 0.4300000000 | 0.9575485163 |
| 0.4350000000 | 0.9684726760 |
| 0.4400000000 | 0.9795349438 |
| 0.4450000000 | 0.9906544853 |
| 0.4500000000 | 1.0019451511 |
| 0.4550000000 | 1.0133019091 |
| 0.4600000000 | 1.0248005362 |
| 0.4650000000 | 1.0364286840 |
| 0.4700000000 | 1.0481951207 |
| 0.4750000000 | 1.0600936843 |
| 0.4800000000 | 1.0721109990 |
| 0.4850000000 | 1.0842491386 |
| 0.4900000000 | 1.0965566745 |
| 0.4950000000 | 1.1089534909 |
| 0.5000000000 | 1.1215252867 |
| 0.5050000000 | 1.1342636517 |
| 0.5100000000 | 1.1471334347 |
| 0.5150000000 | 1.1601763784 |
| 0.5200000000 | 1.1733922588 |
| 0.5250000000 | 1.1867873917 |
| 0.5300000000 | 1.2003395207 |
| 0.5350000000 | 1.2140744023 |
| 0.5400000000 | 1.2280147546 |
| 0.5450000000 | 1.2421415157 |
| 0.5500000000 | 1.2564925433 |
| 0.5550000000 | 1.2710243843 |
| 0.5600000000 | 1.2857987109 |
| 0.5650000000 | 1.3007908721 |
| 0.5700000000 | 1.3159869747 |
| 0.5750000000 | 1.3313728706 |
| 0.5800000000 | 1.3470065820 |
| 0.5850000000 | 1.3628900538 |
| 0.5900000000 | 1.3790156704 |
| 0.5950000000 | 1.3954635300 |
| 0.6000000000 | 1.4121356056 |
| 0.6050000000 | 1.4290984327 |
| 0.6100000000 | 1.4463565838 |
| 0.6150000000 | 1.4638655169 |
| 0.6200000000 | 1.4817021557 |
| 0.6250000000 | 1.4998947172 |
| 0.6300000000 | 1.5184331598 |
| 0.6350000000 | 1.5373083380 |
| 0.6400000000 | 1.5565181315 |
| 0.6450000000 | 1.5760134269 |
| 0.6500000000 | 1.5959137316 |
| 0.6550000000 | 1.6163401973 |
| 0.6600000000 | 1.6371027509 |
| 0.6650000000 | 1.6582378511 |
| 0.6700000000 | 1.6798529334 |
| 0.6750000000 | 1.7019674744 |
| 0.6800000000 | 1.7245919722 |
| 0.6850000000 | 1.7476439139 |
| 0.6900000000 | 1.7712604901 |
| 0.6950000000 | 1.7953924064 |
| 0.7000000000 | 1.8200301268 |
| 0.7050000000 | 1.8453431740 |
| 0.7100000000 | 1.8711757965 |
| 0.7150000000 | 1.8977841497 |
| 0.7200000000 | 1.9249980423 |
| 0.7250000000 | 1.9528331323 |
| 0.7300000000 | 1.9814125736 |
| 0.7350000000 | 2.0108267889 |
| 0.7400000000 | 2.0408287094 |
| 0.7450000000 | 2.0718916790 |
| 0.7500000000 | 2.1037577730 |

| | |
|--------------|---------------|
| 0.7550000000 | 2.1365334098 |
| 0.7600000000 | 2.1703567190 |
| 0.7650000000 | 2.2052387252 |
| 0.7700000000 | 2.2410793595 |
| 0.7750000000 | 2.2781360302 |
| 0.7800000000 | 2.3164457234 |
| 0.7850000000 | 2.3560646088 |
| 0.7900000000 | 2.3970390739 |
| 0.7950000000 | 2.4393968707 |
| 0.8000000000 | 2.4832601808 |
| 0.8050000000 | 2.5286570168 |
| 0.8100000000 | 2.5756835935 |
| 0.8150000000 | 2.6247164415 |
| 0.8200000000 | 2.6757669624 |
| 0.8250000000 | 2.7287934459 |
| 0.8300000000 | 2.7842447662 |
| 0.8350000000 | 2.8419854194 |
| 0.8400000000 | 2.9022522533 |
| 0.8450000000 | 2.9655234297 |
| 0.8500000000 | 3.0319003963 |
| 0.8550000000 | 3.1013351789 |
| 0.8600000000 | 3.1746270959 |
| 0.8650000000 | 3.2521418574 |
| 0.8700000000 | 3.3338760537 |
| 0.8750000000 | 3.4203835880 |
| 0.8800000000 | 3.5120337725 |
| 0.8850000000 | 3.6096036358 |
| 0.8900000000 | 3.7135278168 |
| 0.8950000000 | 3.8250034942 |
| 0.9000000000 | 3.9445774916 |
| 0.9050000000 | 4.0730663457 |
| 0.9100000000 | 4.2121014337 |
| 0.9150000000 | 4.3631500383 |
| 0.9200000000 | 4.5275976426 |
| 0.9250000000 | 4.7082220843 |
| 0.9300000000 | 4.9076306738 |
| 0.9350000000 | 5.1302403435 |
| 0.9400000000 | 5.3793473604 |
| 0.9450000000 | 5.6617344940 |
| 0.9500000000 | 5.9846709054 |
| 0.9550000000 | 6.3603704149 |
| 0.9600000000 | 6.8029891695 |
| 0.9650000000 | 7.3384258370 |
| 0.9700000000 | 8.0027017818 |
| 0.9750000000 | 8.8558789474 |
| 0.9800000000 | 10.0130397148 |
| 0.9850000000 | 11.7074157949 |
| 0.9900000000 | 14.5443049413 |
| 0.9950000000 | 20.9563416348 |

5.2)n=5, $\rho=0.2$

$f_z(z), F_z(z)$



Coefficient

| | |
|--------------------|--------------|
| Mathematical Mean: | 1.98205 |
| Geometrical Mean : | 1.12368 |
| Harmonic Mean : | 0.53096 |
| Variance : | 32.58475 |
| S.D. : | 5.70831 |
| Skewed Coef. : | 267.40985 |
| Kurtosis Coef. : | 222333.86708 |
| MAD : | 1.60073 |
| Range : | 7074.47078 |
| Mid_range : | 3537.23539 |
| Median : | 1.11841 |
| Q1 : | 0.61335 |
| Q2 : | 1.11841 |
| Q3 : | 2.08979 |
| IQR : | 1.47644 |
| C.V. : | 2.88000 |

the critical value table

| | | | | | |
|-------|--------------|-------------------|--------------|--------------|--|
| | | significant level | | | |
| value | 0.995 | 0.99 | 0.975 | 0.95 | |
| | 0.0438575914 | 0.0721207009 | 0.1363814076 | 0.2165131384 | |

| | | | | | |
|-------|--------------|-------------------|---------------|---------------|--|
| | | significant level | | | |
| value | 0.05 | 0.025 | 0.01 | 0.005 | |
| | 5.9292912322 | 8.7676158958 | 14.3903444251 | 20.7117672901 | |

Note: the critical value table

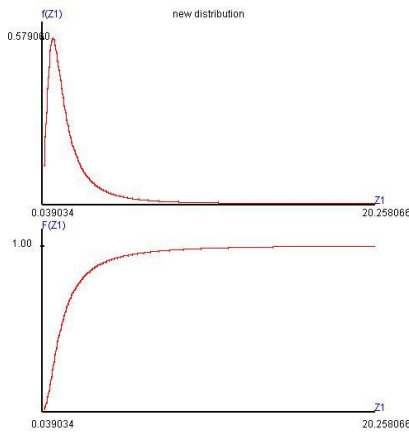
| | |
|--------------|--------------|
| 0.0050000000 | 0.0438575914 |
| 0.0100000000 | 0.0721207009 |
| 0.0150000000 | 0.0958850469 |
| 0.0200000000 | 0.1170313562 |
| 0.0250000000 | 0.1363814076 |
| 0.0300000000 | 0.1543091500 |
| 0.0350000000 | 0.1711256641 |
| 0.0400000000 | 0.1870022717 |
| 0.0450000000 | 0.2021179082 |
| 0.0500000000 | 0.2165131384 |
| 0.0550000000 | 0.2303473426 |
| 0.0600000000 | 0.2436539099 |
| 0.0650000000 | 0.2564858304 |
| 0.0700000000 | 0.2689061075 |
| 0.0750000000 | 0.2809882217 |
| 0.0800000000 | 0.2927477940 |
| 0.0850000000 | 0.3042207816 |
| 0.0900000000 | 0.3153866050 |
| 0.0950000000 | 0.3262878213 |
| 0.1000000000 | 0.3369728634 |
| 0.1050000000 | 0.3474950388 |
| 0.1100000000 | 0.3578013398 |
| 0.1150000000 | 0.3679476993 |
| 0.1200000000 | 0.3779639117 |
| 0.1250000000 | 0.3878137664 |
| 0.1300000000 | 0.3975479718 |
| 0.1350000000 | 0.4071799137 |
| 0.1400000000 | 0.4166893130 |
| 0.1450000000 | 0.4261176684 |
| 0.1500000000 | 0.4354458596 |
| 0.1550000000 | 0.4447105234 |
| 0.1600000000 | 0.4538705262 |
| 0.1650000000 | 0.4629870791 |
| 0.1700000000 | 0.4720254547 |
| 0.1750000000 | 0.4810658884 |
| 0.1800000000 | 0.4900540227 |
| 0.1850000000 | 0.4989852178 |
| 0.1900000000 | 0.5078739672 |
| 0.1950000000 | 0.5167220777 |
| 0.2000000000 | 0.5255675291 |
| 0.2050000000 | 0.5343991418 |
| 0.2100000000 | 0.5432046835 |
| 0.2150000000 | 0.5519864874 |
| 0.2200000000 | 0.5607565368 |
| 0.2250000000 | 0.5695380841 |
| 0.2300000000 | 0.5783084541 |
| 0.2350000000 | 0.5870439002 |
| 0.2400000000 | 0.5958283064 |
| 0.2450000000 | 0.6045860322 |
| 0.2500000000 | 0.6133518382 |
| 0.2550000000 | 0.6221327674 |
| 0.2600000000 | 0.6309605521 |
| 0.2650000000 | 0.6397975211 |
| 0.2700000000 | 0.6486158931 |
| 0.2750000000 | 0.6574835552 |
| 0.2800000000 | 0.6663526135 |
| 0.2850000000 | 0.6752821187 |
| 0.2900000000 | 0.6842364719 |
| 0.2950000000 | 0.6932165980 |
| 0.3000000000 | 0.7021908888 |
| 0.3050000000 | 0.7112439897 |
| 0.3100000000 | 0.7203527459 |
| 0.3150000000 | 0.7295131710 |
| 0.3200000000 | 0.7386839903 |
| 0.3250000000 | 0.7478997050 |
| 0.3300000000 | 0.7571749785 |
| 0.3350000000 | 0.7665028102 |
| 0.3400000000 | 0.7758748198 |
| 0.3450000000 | 0.7852996946 |
| 0.3500000000 | 0.7947669535 |
| 0.3550000000 | 0.8043124929 |
| 0.3600000000 | 0.8139166452 |
| 0.3650000000 | 0.8235497272 |
| 0.3700000000 | 0.8332837951 |

| | |
|--------------|--------------|
| 0.3750000000 | 0.8431030434 |
| 0.3800000000 | 0.8529936321 |
| 0.3850000000 | 0.8629287281 |
| 0.3900000000 | 0.8729577051 |
| 0.3950000000 | 0.8831012030 |
| 0.4000000000 | 0.8932507779 |
| 0.4050000000 | 0.9034902863 |
| 0.4100000000 | 0.9138618703 |
| 0.4150000000 | 0.9243031989 |
| 0.4200000000 | 0.9348569155 |
| 0.4250000000 | 0.9454713471 |
| 0.4300000000 | 0.9562156498 |
| 0.4350000000 | 0.9670497064 |
| 0.4400000000 | 0.9779900644 |
| 0.4450000000 | 0.9889926366 |
| 0.4500000000 | 1.0001384461 |
| 0.4550000000 | 1.0114072573 |
| 0.4600000000 | 1.0227878549 |
| 0.4650000000 | 1.0342846672 |
| 0.4700000000 | 1.0458854448 |
| 0.4750000000 | 1.0576160452 |
| 0.4800000000 | 1.0695131183 |
| 0.4850000000 | 1.0815040702 |
| 0.4900000000 | 1.0936491121 |
| 0.4950000000 | 1.1059594736 |
| 0.5000000000 | 1.1184114253 |
| 0.5050000000 | 1.1310186167 |
| 0.5100000000 | 1.1437719119 |
| 0.5150000000 | 1.1566592581 |
| 0.5200000000 | 1.1697300256 |
| 0.5250000000 | 1.1829539824 |
| 0.5300000000 | 1.1963869679 |
| 0.5350000000 | 1.2099895509 |
| 0.5400000000 | 1.2237543442 |
| 0.5450000000 | 1.2377182570 |
| 0.5500000000 | 1.2518539995 |
| 0.5550000000 | 1.2662657283 |
| 0.5600000000 | 1.2808629747 |
| 0.5650000000 | 1.2956705007 |
| 0.5700000000 | 1.3106796596 |
| 0.5750000000 | 1.3258995785 |
| 0.5800000000 | 1.3413687857 |
| 0.5850000000 | 1.3570521903 |
| 0.5900000000 | 1.3730648054 |
| 0.5950000000 | 1.3892896318 |
| 0.6000000000 | 1.4057700033 |
| 0.6050000000 | 1.4225414011 |
| 0.6100000000 | 1.4396372006 |
| 0.6150000000 | 1.4570093076 |
| 0.6200000000 | 1.4746587658 |
| 0.6250000000 | 1.4926408755 |
| 0.6300000000 | 1.5109458957 |
| 0.6350000000 | 1.5295514258 |
| 0.6400000000 | 1.5485542099 |
| 0.6450000000 | 1.5679124347 |
| 0.6500000000 | 1.5876594986 |
| 0.6550000000 | 1.6077885786 |
| 0.6600000000 | 1.6283512345 |
| 0.6650000000 | 1.6493365005 |
| 0.6700000000 | 1.6707443123 |
| 0.6750000000 | 1.6925637934 |
| 0.6800000000 | 1.7148274923 |
| 0.6850000000 | 1.7376193829 |
| 0.6900000000 | 1.7609219595 |
| 0.6950000000 | 1.7848405674 |
| 0.7000000000 | 1.8091658619 |
| 0.7050000000 | 1.8341283232 |
| 0.7100000000 | 1.8597138569 |
| 0.7150000000 | 1.8859377610 |
| 0.7200000000 | 1.9127315716 |
| 0.7250000000 | 1.9402400980 |
| 0.7300000000 | 1.9685578475 |
| 0.7350000000 | 1.9975938750 |
| 0.7400000000 | 2.0275264396 |
| 0.7450000000 | 2.0582782347 |

| | |
|--------------|---------------|
| 0.7500000000 | 2.0897872775 |
| 0.7550000000 | 2.1222140291 |
| 0.7600000000 | 2.1556486296 |
| 0.7650000000 | 2.1900294072 |
| 0.7700000000 | 2.2255284432 |
| 0.7750000000 | 2.2622116854 |
| 0.7800000000 | 2.3000222944 |
| 0.7850000000 | 2.3390917778 |
| 0.7900000000 | 2.3795111443 |
| 0.7950000000 | 2.4214045308 |
| 0.8000000000 | 2.4647622551 |
| 0.8050000000 | 2.5097431675 |
| 0.8100000000 | 2.5564243271 |
| 0.8150000000 | 2.6048517726 |
| 0.8200000000 | 2.6552990698 |
| 0.8250000000 | 2.7077412476 |
| 0.8300000000 | 2.7626745658 |
| 0.8350000000 | 2.8197985296 |
| 0.8400000000 | 2.8796419733 |
| 0.8450000000 | 2.9423655643 |
| 0.8500000000 | 3.0078048021 |
| 0.8550000000 | 3.0766375444 |
| 0.8600000000 | 3.1495085402 |
| 0.8650000000 | 3.2257983663 |
| 0.8700000000 | 3.3063871152 |
| 0.8750000000 | 3.3918352481 |
| 0.8800000000 | 3.4825465203 |
| 0.8850000000 | 3.5788630739 |
| 0.8900000000 | 3.6817579870 |
| 0.8950000000 | 3.7917988576 |
| 0.9000000000 | 3.9100611805 |
| 0.9050000000 | 4.0370248941 |
| 0.9100000000 | 4.1743301922 |
| 0.9150000000 | 4.3235970779 |
| 0.9200000000 | 4.4864957981 |
| 0.9250000000 | 4.6650948121 |
| 0.9300000000 | 4.8633733304 |
| 0.9350000000 | 5.0828850077 |
| 0.9400000000 | 5.3295154011 |
| 0.9450000000 | 5.6093147825 |
| 0.9500000000 | 5.9292912322 |
| 0.9550000000 | 6.3000640882 |
| 0.9600000000 | 6.7382296598 |
| 0.9650000000 | 7.2672576048 |
| 0.9700000000 | 7.9241973722 |
| 0.9750000000 | 8.7676158958 |
| 0.9800000000 | 9.9089234779 |
| 0.9850000000 | 11.5804504655 |
| 0.9900000000 | 14.3903444251 |
| 0.9950000000 | 20.7117672901 |

5.3) $n=5, \rho=0.3$

$f_z(z), F_z(z)$



Coefficient

| | |
|--------------------|---------------|
| Mathematical Mean: | 1.95903 |
| Geometrical Mean : | 1.12277 |
| Harmonic Mean : | 0.53650 |
| Variance : | 38.51000 |
| S.D. : | 6.20564 |
| Skewed Coef. : | 688.18621 |
| Kurtosis Coef. : | 1680943.52815 |
| MAD : | 1.57005 |
| Range : | 19636.68252 |
| Mid_range : | 9818.34126 |
| Median : | 1.11320 |
| Q1 : | 0.61717 |
| Q2 : | 1.11320 |
| Q3 : | 2.06519 |
| IQR : | 1.44802 |
| C.V. : | 3.16771 |

the critical value table

| | | | | | |
|-------|--------------|-------------------|--------------|--------------|--|
| | | significant level | | | |
| value | 0.995 | 0.99 | 0.975 | 0.95 | |
| | 0.0459488653 | 0.0754346665 | 0.1418275056 | 0.2234352406 | |

| | | | | | |
|-------|--------------|-------------------|---------------|---------------|--|
| | | significant level | | | |
| value | 0.05 | 0.025 | 0.01 | 0.005 | |
| | 5.8200279967 | 8.5988872510 | 14.1009762362 | 20.2971356195 | |

Note: the critical value table

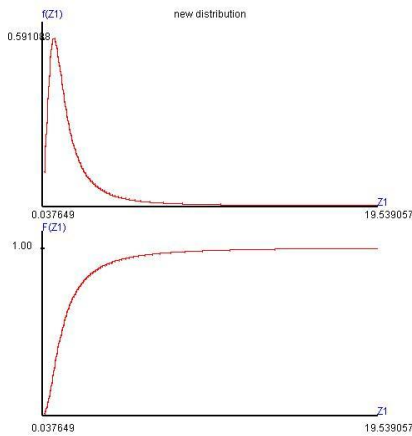
| | |
|--------------|--------------|
| 0.0050000000 | 0.0459488653 |
| 0.0100000000 | 0.0754346665 |
| 0.0150000000 | 0.1000964903 |
| 0.0200000000 | 0.1219776512 |
| 0.0250000000 | 0.1418275056 |
| 0.0300000000 | 0.1601915818 |
| 0.0350000000 | 0.1773204969 |
| 0.0400000000 | 0.1934751112 |
| 0.0450000000 | 0.2088269573 |
| 0.0500000000 | 0.2234352406 |
| 0.0550000000 | 0.2374216212 |
| 0.0600000000 | 0.2508560619 |
| 0.0650000000 | 0.2637880273 |
| 0.0700000000 | 0.2762476107 |
| 0.0750000000 | 0.2883181660 |
| 0.0800000000 | 0.3000875649 |
| 0.0850000000 | 0.3115181018 |
| 0.0900000000 | 0.3226543177 |
| 0.0950000000 | 0.3335368704 |
| 0.1000000000 | 0.3441956896 |
| 0.1050000000 | 0.3546197785 |
| 0.1100000000 | 0.3648954944 |
| 0.1150000000 | 0.3749579721 |
| 0.1200000000 | 0.3848607918 |
| 0.1250000000 | 0.3946145358 |
| 0.1300000000 | 0.4042537743 |
| 0.1350000000 | 0.4137802201 |
| 0.1400000000 | 0.4231910245 |
| 0.1450000000 | 0.4324998384 |
| 0.1500000000 | 0.4417206241 |
| 0.1550000000 | 0.4508597872 |
| 0.1600000000 | 0.4599607080 |
| 0.1650000000 | 0.4689662395 |
| 0.1700000000 | 0.4779207495 |
| 0.1750000000 | 0.4868220609 |
| 0.1800000000 | 0.4956797391 |
| 0.1850000000 | 0.5045036589 |
| 0.1900000000 | 0.5132902463 |
| 0.1950000000 | 0.5220192655 |
| 0.2000000000 | 0.5307317316 |
| 0.2050000000 | 0.5394338526 |
| 0.2100000000 | 0.5481120263 |
| 0.2150000000 | 0.5567538284 |
| 0.2200000000 | 0.5653904389 |
| 0.2250000000 | 0.5740285282 |
| 0.2300000000 | 0.5826386411 |
| 0.2350000000 | 0.5912631444 |
| 0.2400000000 | 0.5998748493 |
| 0.2450000000 | 0.6085246958 |
| 0.2500000000 | 0.6171744621 |
| 0.2550000000 | 0.6258213139 |
| 0.2600000000 | 0.6344839540 |
| 0.2650000000 | 0.6431624490 |
| 0.2700000000 | 0.6518833422 |
| 0.2750000000 | 0.6606131689 |
| 0.2800000000 | 0.6693704529 |
| 0.2850000000 | 0.6781533432 |
| 0.2900000000 | 0.6869705828 |
| 0.2950000000 | 0.6957922967 |
| 0.3000000000 | 0.7046438083 |
| 0.3050000000 | 0.7135283050 |
| 0.3100000000 | 0.7224694383 |
| 0.3150000000 | 0.7314285768 |
| 0.3200000000 | 0.7404449673 |
| 0.3250000000 | 0.7495011482 |
| 0.3300000000 | 0.7585932414 |
| 0.3350000000 | 0.7677412248 |
| 0.3400000000 | 0.7769471934 |
| 0.3450000000 | 0.7862097408 |
| 0.3500000000 | 0.7955242730 |
| 0.3550000000 | 0.8049076305 |
| 0.3600000000 | 0.8142983246 |
| 0.3650000000 | 0.8237960329 |
| 0.3700000000 | 0.8333813976 |
| 0.3750000000 | 0.8430032127 |

| | |
|--------------|--------------|
| 0.3800000000 | 0.8527018651 |
| 0.3850000000 | 0.8624732258 |
| 0.3900000000 | 0.8723115287 |
| 0.3950000000 | 0.8822366017 |
| 0.4000000000 | 0.8922195812 |
| 0.4050000000 | 0.9022906966 |
| 0.4100000000 | 0.9124145559 |
| 0.4150000000 | 0.9226550515 |
| 0.4200000000 | 0.9329816373 |
| 0.4250000000 | 0.9434306995 |
| 0.4300000000 | 0.9539588313 |
| 0.4350000000 | 0.9646072592 |
| 0.4400000000 | 0.9753575169 |
| 0.4450000000 | 0.9861685823 |
| 0.4500000000 | 0.9971111845 |
| 0.4550000000 | 1.0082048783 |
| 0.4600000000 | 1.0193296684 |
| 0.4650000000 | 1.0306183960 |
| 0.4700000000 | 1.0420570738 |
| 0.4750000000 | 1.0536007806 |
| 0.4800000000 | 1.0652460947 |
| 0.4850000000 | 1.0770134635 |
| 0.4900000000 | 1.0889254653 |
| 0.4950000000 | 1.1010101307 |
| 0.5000000000 | 1.1132002302 |
| 0.5050000000 | 1.1255202753 |
| 0.5100000000 | 1.1380189020 |
| 0.5150000000 | 1.1506781801 |
| 0.5200000000 | 1.1635120690 |
| 0.5250000000 | 1.1764820967 |
| 0.5300000000 | 1.1896737795 |
| 0.5350000000 | 1.2029651111 |
| 0.5400000000 | 1.2164999673 |
| 0.5450000000 | 1.2301672694 |
| 0.5500000000 | 1.2440599035 |
| 0.5550000000 | 1.2581681427 |
| 0.5600000000 | 1.2724610245 |
| 0.5650000000 | 1.2869714833 |
| 0.5700000000 | 1.3017072610 |
| 0.5750000000 | 1.3167247632 |
| 0.5800000000 | 1.3319403300 |
| 0.5850000000 | 1.3473896414 |
| 0.5900000000 | 1.3630076501 |
| 0.5950000000 | 1.3789273405 |
| 0.6000000000 | 1.3950922391 |
| 0.6050000000 | 1.4115730782 |
| 0.6100000000 | 1.4283012930 |
| 0.6150000000 | 1.4453197122 |
| 0.6200000000 | 1.4626181119 |
| 0.6250000000 | 1.4802000608 |
| 0.6300000000 | 1.4981578803 |
| 0.6350000000 | 1.5164205851 |
| 0.6400000000 | 1.5349586091 |
| 0.6450000000 | 1.5539427033 |
| 0.6500000000 | 1.5732815810 |
| 0.6550000000 | 1.5930264839 |
| 0.6600000000 | 1.6131266981 |
| 0.6650000000 | 1.6336383961 |
| 0.6700000000 | 1.6545023497 |
| 0.6750000000 | 1.6758592886 |
| 0.6800000000 | 1.6977612196 |
| 0.6850000000 | 1.7201062627 |
| 0.6900000000 | 1.7429703575 |
| 0.6950000000 | 1.7663473283 |
| 0.7000000000 | 1.7903283066 |
| 0.7050000000 | 1.8148385531 |
| 0.7100000000 | 1.8398875217 |
| 0.7150000000 | 1.8655965329 |
| 0.7200000000 | 1.8919810067 |
| 0.7250000000 | 1.9190469077 |
| 0.7300000000 | 1.9466637656 |
| 0.7350000000 | 1.9752003338 |
| 0.7400000000 | 2.0043689729 |
| 0.7450000000 | 2.0344545539 |
| 0.7500000000 | 2.0651925523 |

| | |
|--------------|---------------|
| 0.7550000000 | 2.0969414475 |
| 0.7600000000 | 2.1296598898 |
| 0.7650000000 | 2.1634820259 |
| 0.7700000000 | 2.1983116436 |
| 0.7750000000 | 2.2340928188 |
| 0.7800000000 | 2.2711256608 |
| 0.7850000000 | 2.3094632705 |
| 0.7900000000 | 2.3492056976 |
| 0.7950000000 | 2.3901251978 |
| 0.8000000000 | 2.4327450213 |
| 0.8050000000 | 2.4768443171 |
| 0.8100000000 | 2.5224444124 |
| 0.8150000000 | 2.5699463249 |
| 0.8200000000 | 2.6194927265 |
| 0.8250000000 | 2.6709907401 |
| 0.8300000000 | 2.7244734700 |
| 0.8350000000 | 2.7804409775 |
| 0.8400000000 | 2.8390499065 |
| 0.8450000000 | 2.9002896594 |
| 0.8500000000 | 2.9644941902 |
| 0.8550000000 | 3.0319251035 |
| 0.8600000000 | 3.1028537792 |
| 0.8650000000 | 3.1775604443 |
| 0.8700000000 | 3.2565763119 |
| 0.8750000000 | 3.3401553616 |
| 0.8800000000 | 3.4289270032 |
| 0.8850000000 | 3.5234504468 |
| 0.8900000000 | 3.6240232433 |
| 0.8950000000 | 3.7316755954 |
| 0.9000000000 | 3.8470172557 |
| 0.9050000000 | 3.9711983533 |
| 0.9100000000 | 4.1058229849 |
| 0.9150000000 | 4.2515223340 |
| 0.9200000000 | 4.4105240435 |
| 0.9250000000 | 4.5855987221 |
| 0.9300000000 | 4.7789461681 |
| 0.9350000000 | 4.9940457085 |
| 0.9400000000 | 5.2347709193 |
| 0.9450000000 | 5.5074323842 |
| 0.9500000000 | 5.8200279967 |
| 0.9550000000 | 6.1829924348 |
| 0.9600000000 | 6.6120479208 |
| 0.9650000000 | 7.1296236190 |
| 0.9700000000 | 7.7716506093 |
| 0.9750000000 | 8.5988872510 |
| 0.9800000000 | 9.7151103789 |
| 0.9850000000 | 11.3540275122 |
| 0.9900000000 | 14.1009762362 |
| 0.9950000000 | 20.2971356195 |

5.4) $n=5, \rho=0.4$

$f_z(z), F_z(z)$



Coefficient

| | |
|--------------------|--------------|
| Mathematical Mean: | 1.91734 |
| Geometrical Mean : | 1.12094 |
| Harmonic Mean : | 0.56324 |
| Variance : | 29.26690 |
| S.D. : | 5.40989 |
| Skewed Coef. : | 280.60790 |
| Kurtosis Coef. : | 270451.49175 |
| MAD : | 1.51342 |
| Range : | 9217.24317 |
| Mid_range : | 4608.62159 |
| Median : | 1.10543 |
| Q1 : | 0.62356 |
| Q2 : | 1.10543 |
| Q3 : | 2.02562 |
| IQR : | 1.40206 |
| C.V. : | 2.82157 |

the critical value table

| | | | | | |
|-------|--------------|-------------------|--------------|--------------|--|
| | | significant level | | | |
| value | 0.995 | 0.99 | 0.975 | 0.95 | |
| | 0.0495611974 | 0.0809652145 | 0.1508092011 | 0.2346278242 | |

| | | | | | |
|-------|--------------|-------------------|---------------|---------------|--|
| | | significant level | | | |
| value | 0.05 | 0.025 | 0.01 | 0.005 | |
| | 5.6464496403 | 8.3190999248 | 13.6200312290 | 19.5767074642 | |

Note: the critical value table

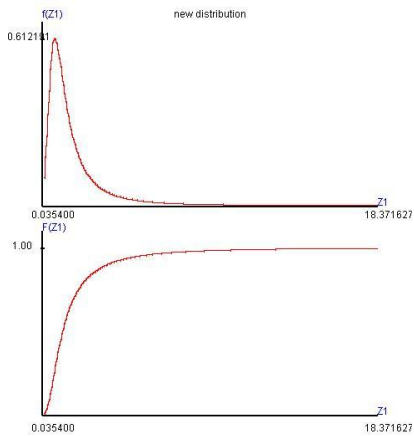
| | |
|--------------|--------------|
| 0.0050000000 | 0.0495611974 |
| 0.0100000000 | 0.0809652145 |
| 0.0150000000 | 0.1070870667 |
| 0.0200000000 | 0.1300554958 |
| 0.0250000000 | 0.1508092011 |
| 0.0300000000 | 0.1698635737 |
| 0.0350000000 | 0.1875582457 |
| 0.0400000000 | 0.2041201609 |
| 0.0450000000 | 0.2197685186 |
| 0.0500000000 | 0.2346278242 |
| 0.0550000000 | 0.2487409115 |
| 0.0600000000 | 0.2622635973 |
| 0.0650000000 | 0.2752832327 |
| 0.0700000000 | 0.2877900001 |
| 0.0750000000 | 0.2998945459 |
| 0.0800000000 | 0.3116178247 |
| 0.0850000000 | 0.3230128209 |
| 0.0900000000 | 0.3341242736 |
| 0.0950000000 | 0.3449605705 |
| 0.1000000000 | 0.3555239802 |
| 0.1050000000 | 0.3658885884 |
| 0.1100000000 | 0.3760499836 |
| 0.1150000000 | 0.3859939727 |
| 0.1200000000 | 0.3958075579 |
| 0.1250000000 | 0.4054699683 |
| 0.1300000000 | 0.4149861376 |
| 0.1350000000 | 0.4243662568 |
| 0.1400000000 | 0.4336618243 |
| 0.1450000000 | 0.4428255936 |
| 0.1500000000 | 0.4518988383 |
| 0.1550000000 | 0.4609030293 |
| 0.1600000000 | 0.4697892289 |
| 0.1650000000 | 0.4786473340 |
| 0.1700000000 | 0.4874350394 |
| 0.1750000000 | 0.4961542450 |
| 0.1800000000 | 0.5048205210 |
| 0.1850000000 | 0.5134421819 |
| 0.1900000000 | 0.5220347782 |
| 0.1950000000 | 0.5305906757 |
| 0.2000000000 | 0.5390999492 |
| 0.2050000000 | 0.5476120263 |
| 0.2100000000 | 0.5560784649 |
| 0.2150000000 | 0.5645266306 |
| 0.2200000000 | 0.5729782183 |
| 0.2250000000 | 0.5814096647 |
| 0.2300000000 | 0.5898358569 |
| 0.2350000000 | 0.5982616795 |
| 0.2400000000 | 0.6066849912 |
| 0.2450000000 | 0.6151374852 |
| 0.2500000000 | 0.6235602891 |
| 0.2550000000 | 0.6320048641 |
| 0.2600000000 | 0.6404839724 |
| 0.2650000000 | 0.6489705169 |
| 0.2700000000 | 0.6574456333 |
| 0.2750000000 | 0.6659497867 |
| 0.2800000000 | 0.6744686784 |
| 0.2850000000 | 0.6830041154 |
| 0.2900000000 | 0.6915625519 |
| 0.2950000000 | 0.7001611515 |
| 0.3000000000 | 0.7088038154 |
| 0.3050000000 | 0.7174344630 |
| 0.3100000000 | 0.7261344101 |
| 0.3150000000 | 0.7348739196 |
| 0.3200000000 | 0.7436560815 |
| 0.3250000000 | 0.7524738187 |
| 0.3300000000 | 0.7613129528 |
| 0.3350000000 | 0.7702106833 |
| 0.3400000000 | 0.7791797522 |
| 0.3450000000 | 0.7881825353 |
| 0.3500000000 | 0.7972247654 |
| 0.3550000000 | 0.8063253256 |
| 0.3600000000 | 0.8154971659 |
| 0.3650000000 | 0.8247140279 |
| 0.3700000000 | 0.8339805676 |
| 0.3750000000 | 0.8433258203 |

| | |
|--------------|--------------|
| 0.3800000000 | 0.8527432621 |
| 0.3850000000 | 0.8622424423 |
| 0.3900000000 | 0.8717846581 |
| 0.3950000000 | 0.8813893117 |
| 0.4000000000 | 0.8910867949 |
| 0.4050000000 | 0.9009006147 |
| 0.4100000000 | 0.9107947463 |
| 0.4150000000 | 0.9207451743 |
| 0.4200000000 | 0.9307934057 |
| 0.4250000000 | 0.9408923549 |
| 0.4300000000 | 0.9511260694 |
| 0.4350000000 | 0.9614162342 |
| 0.4400000000 | 0.9718051464 |
| 0.4450000000 | 0.9823059163 |
| 0.4500000000 | 0.9928976436 |
| 0.4550000000 | 1.0036361959 |
| 0.4600000000 | 1.0144898971 |
| 0.4650000000 | 1.0254381591 |
| 0.4700000000 | 1.0364905382 |
| 0.4750000000 | 1.0476243591 |
| 0.4800000000 | 1.0589200853 |
| 0.4850000000 | 1.0703326980 |
| 0.4900000000 | 1.0819043302 |
| 0.4950000000 | 1.0936066910 |
| 0.5000000000 | 1.1054322845 |
| 0.5050000000 | 1.1173838878 |
| 0.5100000000 | 1.1295225626 |
| 0.5150000000 | 1.1417856098 |
| 0.5200000000 | 1.1541878251 |
| 0.5250000000 | 1.1667751905 |
| 0.5300000000 | 1.1795236360 |
| 0.5350000000 | 1.1924524113 |
| 0.5400000000 | 1.2055197385 |
| 0.5450000000 | 1.2187864562 |
| 0.5500000000 | 1.2322345497 |
| 0.5550000000 | 1.2458705033 |
| 0.5600000000 | 1.2597217830 |
| 0.5650000000 | 1.2737724028 |
| 0.5700000000 | 1.2880401141 |
| 0.5750000000 | 1.3024521725 |
| 0.5800000000 | 1.3171719365 |
| 0.5850000000 | 1.3320491473 |
| 0.5900000000 | 1.3471912121 |
| 0.5950000000 | 1.3625581021 |
| 0.6000000000 | 1.3782200513 |
| 0.6050000000 | 1.3940988395 |
| 0.6100000000 | 1.4102316923 |
| 0.6150000000 | 1.4267091254 |
| 0.6200000000 | 1.4434168903 |
| 0.6250000000 | 1.4604500522 |
| 0.6300000000 | 1.4778095648 |
| 0.6350000000 | 1.4954541264 |
| 0.6400000000 | 1.5134540020 |
| 0.6450000000 | 1.5317510252 |
| 0.6500000000 | 1.5504221927 |
| 0.6550000000 | 1.5694997567 |
| 0.6600000000 | 1.5889750227 |
| 0.6650000000 | 1.6088630791 |
| 0.6700000000 | 1.6290805758 |
| 0.6750000000 | 1.6497698217 |
| 0.6800000000 | 1.6708767170 |
| 0.6850000000 | 1.6923831007 |
| 0.6900000000 | 1.7144587170 |
| 0.6950000000 | 1.7370382646 |
| 0.7000000000 | 1.7601461378 |
| 0.7050000000 | 1.7838351983 |
| 0.7100000000 | 1.8080394304 |
| 0.7150000000 | 1.8328394540 |
| 0.7200000000 | 1.8583394009 |
| 0.7250000000 | 1.8843985307 |
| 0.7300000000 | 1.9112381435 |
| 0.7350000000 | 1.9387120344 |
| 0.7400000000 | 1.9669039650 |
| 0.7450000000 | 1.9958915589 |
| 0.7500000000 | 2.0256206760 |

| | |
|--------------|---------------|
| 0.7550000000 | 2.0561956955 |
| 0.7600000000 | 2.0879175387 |
| 0.7650000000 | 2.1204277156 |
| 0.7700000000 | 2.1539573613 |
| 0.7750000000 | 2.1885858919 |
| 0.7800000000 | 2.2244024528 |
| 0.7850000000 | 2.2614879447 |
| 0.7900000000 | 2.2996311775 |
| 0.7950000000 | 2.3391787179 |
| 0.8000000000 | 2.3801697370 |
| 0.8050000000 | 2.4225176560 |
| 0.8100000000 | 2.4665397458 |
| 0.8150000000 | 2.5124647042 |
| 0.8200000000 | 2.5600494149 |
| 0.8250000000 | 2.6096287161 |
| 0.8300000000 | 2.6613295796 |
| 0.8350000000 | 2.7152384442 |
| 0.8400000000 | 2.7717856281 |
| 0.8450000000 | 2.8309443652 |
| 0.8500000000 | 2.8930047616 |
| 0.8550000000 | 2.9579373351 |
| 0.8600000000 | 3.0262048635 |
| 0.8650000000 | 3.0985375088 |
| 0.8700000000 | 3.1746217029 |
| 0.8750000000 | 3.2553891691 |
| 0.8800000000 | 3.3409721760 |
| 0.8850000000 | 3.4316691359 |
| 0.8900000000 | 3.5286009151 |
| 0.8950000000 | 3.6324413122 |
| 0.9000000000 | 3.7437475717 |
| 0.9050000000 | 3.8633633970 |
| 0.9100000000 | 3.9929802703 |
| 0.9150000000 | 4.1342116184 |
| 0.9200000000 | 4.2878138794 |
| 0.9250000000 | 4.4565090392 |
| 0.9300000000 | 4.6428407210 |
| 0.9350000000 | 4.8501171979 |
| 0.9400000000 | 5.0826633842 |
| 0.9450000000 | 5.3455038011 |
| 0.9500000000 | 5.6464496403 |
| 0.9550000000 | 5.9968479950 |
| 0.9600000000 | 6.4100075035 |
| 0.9650000000 | 6.9083882474 |
| 0.9700000000 | 7.5254160401 |
| 0.9750000000 | 8.3190999248 |
| 0.9800000000 | 9.3947709658 |
| 0.9850000000 | 10.9730359448 |
| 0.9900000000 | 13.6200312290 |
| 0.9950000000 | 19.5767074642 |

5.5) $n=5, \rho=0.5$

$f_z(z), F_z(z)$



Coefficient

| | |
|--------------------|---------------|
| Mathematical Mean: | 1.85301 |
| Geometrical Mean : | 1.11621 |
| Harmonic Mean : | 0.59090 |
| Variance : | 31.38218 |
| S.D. : | 5.60198 |
| Skewed Coef. : | 878.21576 |
| Kurtosis Coef. : | 2298586.89918 |
| MAD : | 1.42572 |
| Range : | 17989.87098 |
| Mid_range : | 8994.93549 |
| Median : | 1.09459 |
| Q1 : | 0.63295 |
| Q2 : | 1.09459 |
| Q3 : | 1.96591 |
| IQR : | 1.33296 |
| C.V. : | 3.02317 |

the critical value table

| | | | | | |
|-------|--------------|-------------------|--------------|--------------|--|
| | | significant level | | | |
| value | 0.995 | 0.99 | 0.975 | 0.95 | |
| | 0.0549580135 | 0.0891744876 | 0.1638079928 | 0.2505134000 | |

| | | | | | |
|-------|--------------|-------------------|---------------|---------------|--|
| | | significant level | | | |
| value | 0.05 | 0.025 | 0.01 | 0.005 | |
| | 5.3648205947 | 7.8728548197 | 12.8296849844 | 18.4070439415 | |

Note: the critical value table

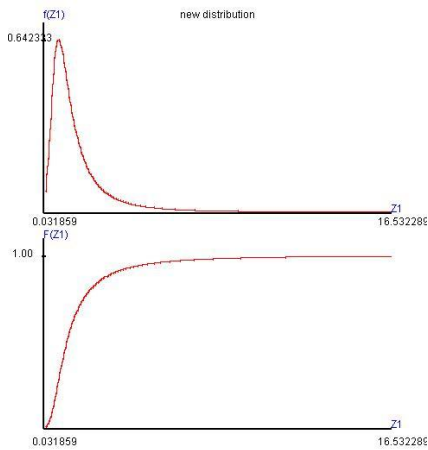
| | |
|--------------|--------------|
| 0.0050000000 | 0.0549580135 |
| 0.0100000000 | 0.0891744876 |
| 0.0150000000 | 0.1173546310 |
| 0.0200000000 | 0.1418873733 |
| 0.0250000000 | 0.1638079928 |
| 0.0300000000 | 0.1837944455 |
| 0.0350000000 | 0.2021532815 |
| 0.0400000000 | 0.2193344547 |
| 0.0450000000 | 0.2354121939 |
| 0.0500000000 | 0.2505134000 |
| 0.0550000000 | 0.2648715784 |
| 0.0600000000 | 0.2785515709 |
| 0.0650000000 | 0.2916723085 |
| 0.0700000000 | 0.3042393252 |
| 0.0750000000 | 0.3163516669 |
| 0.0800000000 | 0.3280731196 |
| 0.0850000000 | 0.3393878994 |
| 0.0900000000 | 0.3504362944 |
| 0.0950000000 | 0.3611588322 |
| 0.1000000000 | 0.3716022844 |
| 0.1050000000 | 0.3818205238 |
| 0.1100000000 | 0.3918253245 |
| 0.1150000000 | 0.4016325883 |
| 0.1200000000 | 0.4112908200 |
| 0.1250000000 | 0.4208083057 |
| 0.1300000000 | 0.4301139350 |
| 0.1350000000 | 0.4393281961 |
| 0.1400000000 | 0.4484016639 |
| 0.1450000000 | 0.4573790630 |
| 0.1500000000 | 0.4662617026 |
| 0.1550000000 | 0.4750364765 |
| 0.1600000000 | 0.4837334038 |
| 0.1650000000 | 0.4923517916 |
| 0.1700000000 | 0.5009094334 |
| 0.1750000000 | 0.5093854439 |
| 0.1800000000 | 0.5178270186 |
| 0.1850000000 | 0.5261968420 |
| 0.1900000000 | 0.5345537941 |
| 0.1950000000 | 0.5428616473 |
| 0.2000000000 | 0.5511510075 |
| 0.2050000000 | 0.5594010896 |
| 0.2100000000 | 0.5676174504 |
| 0.2150000000 | 0.5758438536 |
| 0.2200000000 | 0.5840233644 |
| 0.2250000000 | 0.5922076300 |
| 0.2300000000 | 0.6003706266 |
| 0.2350000000 | 0.6085138994 |
| 0.2400000000 | 0.6166792110 |
| 0.2450000000 | 0.6248139360 |
| 0.2500000000 | 0.6329494187 |
| 0.2550000000 | 0.6410998533 |
| 0.2600000000 | 0.6492755185 |
| 0.2650000000 | 0.6574369735 |
| 0.2700000000 | 0.6656527180 |
| 0.2750000000 | 0.6738337585 |
| 0.2800000000 | 0.6820497922 |
| 0.2850000000 | 0.6902807742 |
| 0.2900000000 | 0.6985451323 |
| 0.2950000000 | 0.7068465431 |
| 0.3000000000 | 0.7151219281 |
| 0.3050000000 | 0.7234498756 |
| 0.3100000000 | 0.7317885944 |
| 0.3150000000 | 0.7401839474 |
| 0.3200000000 | 0.7486210901 |
| 0.3250000000 | 0.7570979098 |
| 0.3300000000 | 0.7656166179 |
| 0.3350000000 | 0.7741519024 |
| 0.3400000000 | 0.7827519834 |
| 0.3450000000 | 0.7913652763 |
| 0.3500000000 | 0.8000570072 |
| 0.3550000000 | 0.8088120570 |
| 0.3600000000 | 0.8175956933 |
| 0.3650000000 | 0.8264342758 |
| 0.3700000000 | 0.8353178959 |
| 0.3750000000 | 0.8442878101 |

| | |
|--------------|--------------|
| 0.3800000000 | 0.8533143159 |
| 0.3850000000 | 0.8623976746 |
| 0.3900000000 | 0.8715381987 |
| 0.3950000000 | 0.8807531238 |
| 0.4000000000 | 0.8900304945 |
| 0.4050000000 | 0.8994001962 |
| 0.4100000000 | 0.9088338182 |
| 0.4150000000 | 0.9183741908 |
| 0.4200000000 | 0.9279806004 |
| 0.4250000000 | 0.9376478823 |
| 0.4300000000 | 0.9473640312 |
| 0.4350000000 | 0.9572124608 |
| 0.4400000000 | 0.9671695147 |
| 0.4450000000 | 0.9772289271 |
| 0.4500000000 | 0.9873905854 |
| 0.4550000000 | 0.9975971000 |
| 0.4600000000 | 1.0079202408 |
| 0.4650000000 | 1.0183340420 |
| 0.4700000000 | 1.0288825734 |
| 0.4750000000 | 1.0394969734 |
| 0.4800000000 | 1.0502757005 |
| 0.4850000000 | 1.0611658206 |
| 0.4900000000 | 1.0721836832 |
| 0.4950000000 | 1.0833212040 |
| 0.5000000000 | 1.0945873578 |
| 0.5050000000 | 1.1060209868 |
| 0.5100000000 | 1.1175534023 |
| 0.5150000000 | 1.1292463283 |
| 0.5200000000 | 1.1410733036 |
| 0.5250000000 | 1.1530432172 |
| 0.5300000000 | 1.1651702224 |
| 0.5350000000 | 1.1774053995 |
| 0.5400000000 | 1.1898470861 |
| 0.5450000000 | 1.2024301237 |
| 0.5500000000 | 1.2151952298 |
| 0.5550000000 | 1.2281755754 |
| 0.5600000000 | 1.2413289108 |
| 0.5650000000 | 1.2546484986 |
| 0.5700000000 | 1.2681846932 |
| 0.5750000000 | 1.2819214179 |
| 0.5800000000 | 1.2958444352 |
| 0.5850000000 | 1.3099974122 |
| 0.5900000000 | 1.3243683341 |
| 0.5950000000 | 1.3390031888 |
| 0.6000000000 | 1.3538035259 |
| 0.6050000000 | 1.3688742593 |
| 0.6100000000 | 1.3841970807 |
| 0.6150000000 | 1.3997724061 |
| 0.6200000000 | 1.4156293254 |
| 0.6250000000 | 1.4318013993 |
| 0.6300000000 | 1.4482369031 |
| 0.6350000000 | 1.4649677072 |
| 0.6400000000 | 1.4820012746 |
| 0.6450000000 | 1.4993066085 |
| 0.6500000000 | 1.5170434574 |
| 0.6550000000 | 1.5351231611 |
| 0.6600000000 | 1.5534966216 |
| 0.6650000000 | 1.5722909993 |
| 0.6700000000 | 1.5914808277 |
| 0.6750000000 | 1.6109853971 |
| 0.6800000000 | 1.6309200715 |
| 0.6850000000 | 1.6512968112 |
| 0.6900000000 | 1.6722052852 |
| 0.6950000000 | 1.6935515036 |
| 0.7000000000 | 1.7154044150 |
| 0.7050000000 | 1.7376918236 |
| 0.7100000000 | 1.7605183389 |
| 0.7150000000 | 1.7839989853 |
| 0.7200000000 | 1.8080507547 |
| 0.7250000000 | 1.8326564178 |
| 0.7300000000 | 1.8578829057 |
| 0.7350000000 | 1.8837970229 |
| 0.7400000000 | 1.9104316034 |
| 0.7450000000 | 1.9377589434 |
| 0.7500000000 | 1.9659076716 |

| | |
|--------------|---------------|
| 0.7550000000 | 1.9948671474 |
| 0.7600000000 | 2.0246563953 |
| 0.7650000000 | 2.0554267561 |
| 0.7700000000 | 2.0869907638 |
| 0.7750000000 | 2.1195847049 |
| 0.7800000000 | 2.1532325230 |
| 0.7850000000 | 2.1880691323 |
| 0.7900000000 | 2.2240751783 |
| 0.7950000000 | 2.2613450810 |
| 0.8000000000 | 2.2999497437 |
| 0.8050000000 | 2.3398807042 |
| 0.8100000000 | 2.3814662104 |
| 0.8150000000 | 2.4246277234 |
| 0.8200000000 | 2.4694656195 |
| 0.8250000000 | 2.5160971250 |
| 0.8300000000 | 2.5649135700 |
| 0.8350000000 | 2.6158037946 |
| 0.8400000000 | 2.6689959081 |
| 0.8450000000 | 2.7243760682 |
| 0.8500000000 | 2.7826493964 |
| 0.8550000000 | 2.8437502700 |
| 0.8600000000 | 2.9079347661 |
| 0.8650000000 | 2.9758342352 |
| 0.8700000000 | 3.0474898261 |
| 0.8750000000 | 3.1233205514 |
| 0.8800000000 | 3.2038582920 |
| 0.8850000000 | 3.2891973392 |
| 0.8900000000 | 3.3801355910 |
| 0.8950000000 | 3.4776193716 |
| 0.9000000000 | 3.5820629061 |
| 0.9050000000 | 3.6943331706 |
| 0.9100000000 | 3.8158738127 |
| 0.9150000000 | 3.9479313192 |
| 0.9200000000 | 4.0922132764 |
| 0.9250000000 | 4.2501493673 |
| 0.9300000000 | 4.4244314569 |
| 0.9350000000 | 4.6183926930 |
| 0.9400000000 | 4.8365883225 |
| 0.9450000000 | 5.0834086267 |
| 0.9500000000 | 5.3648205947 |
| 0.9550000000 | 5.6925613855 |
| 0.9600000000 | 6.0802554299 |
| 0.9650000000 | 6.5480829689 |
| 0.9700000000 | 7.1269925727 |
| 0.9750000000 | 7.8728548197 |
| 0.9800000000 | 8.8814958910 |
| 0.9850000000 | 10.3595196035 |
| 0.9900000000 | 12.8296849844 |
| 0.9950000000 | 18.4070439415 |

5.6) $n=5, \rho=0.6$

$f_z(z), F_z(z)$



Coefficient

| | |
|--------------------|--------------|
| Mathematical Mean: | 1.75611 |
| Geometrical Mean : | 1.10720 |
| Harmonic Mean : | 0.62843 |
| Variance : | 22.98383 |
| S.D. : | 4.79415 |
| Skewed Coef. : | 540.28629 |
| Kurtosis Coef. : | 933700.20413 |
| MAD : | 1.29201 |
| Range : | 11650.16127 |
| Mid_range : | 5825.08064 |
| Median : | 1.08077 |
| Q1 : | 0.64696 |
| Q2 : | 1.08077 |
| Q3 : | 1.88049 |
| IQR : | 1.23353 |
| C.V. : | 2.72998 |

the critical value table

| | | | | | |
|-------|--------------|-------------------|--------------|--------------|--|
| | | significant level | | | |
| value | 0.995 | 0.99 | 0.975 | 0.95 | |
| | 0.0634342894 | 0.1016970254 | 0.1830004574 | 0.2734386022 | |

| | | | | | |
|-------|--------------|-------------------|---------------|---------------|--|
| | | significant level | | | |
| value | 0.05 | 0.025 | 0.01 | 0.005 | |
| | 4.9360514607 | 7.1735841143 | 11.5916990076 | 16.5641476980 | |

Note: the critical value table

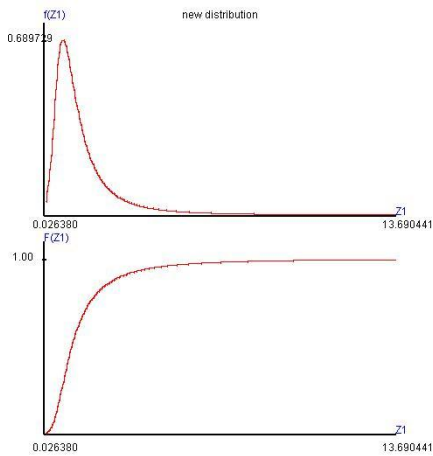
| | |
|--------------|--------------|
| 0.0050000000 | 0.0634342894 |
| 0.0100000000 | 0.1016970254 |
| 0.0150000000 | 0.1327999764 |
| 0.0200000000 | 0.1594164911 |
| 0.0250000000 | 0.1830004574 |
| 0.0300000000 | 0.2041726512 |
| 0.0350000000 | 0.2235290182 |
| 0.0400000000 | 0.2413616505 |
| 0.0450000000 | 0.2579299197 |
| 0.0500000000 | 0.2734386022 |
| 0.0550000000 | 0.2880811936 |
| 0.0600000000 | 0.3019493789 |
| 0.0650000000 | 0.3151322335 |
| 0.0700000000 | 0.3277304799 |
| 0.0750000000 | 0.3398463234 |
| 0.0800000000 | 0.3514931593 |
| 0.0850000000 | 0.3627637372 |
| 0.0900000000 | 0.3736719214 |
| 0.0950000000 | 0.3842580901 |
| 0.1000000000 | 0.3945747496 |
| 0.1050000000 | 0.4046197698 |
| 0.1100000000 | 0.4144609505 |
| 0.1150000000 | 0.4240230591 |
| 0.1200000000 | 0.4334478810 |
| 0.1250000000 | 0.4427055534 |
| 0.1300000000 | 0.4517953595 |
| 0.1350000000 | 0.4607313296 |
| 0.1400000000 | 0.4695555502 |
| 0.1450000000 | 0.4782697033 |
| 0.1500000000 | 0.4868542870 |
| 0.1550000000 | 0.4953643837 |
| 0.1600000000 | 0.5037921958 |
| 0.1650000000 | 0.5121239346 |
| 0.1700000000 | 0.5203745659 |
| 0.1750000000 | 0.5285520321 |
| 0.1800000000 | 0.5366743749 |
| 0.1850000000 | 0.5447498688 |
| 0.1900000000 | 0.5527693886 |
| 0.1950000000 | 0.5607706410 |
| 0.2000000000 | 0.5687198216 |
| 0.2050000000 | 0.5766162259 |
| 0.2100000000 | 0.5844970114 |
| 0.2150000000 | 0.5923744784 |
| 0.2200000000 | 0.6002013752 |
| 0.2250000000 | 0.6080166063 |
| 0.2300000000 | 0.6158439550 |
| 0.2350000000 | 0.6236463743 |
| 0.2400000000 | 0.6314278776 |
| 0.2450000000 | 0.6391750381 |
| 0.2500000000 | 0.6469608652 |
| 0.2550000000 | 0.6547402716 |
| 0.2600000000 | 0.6625052258 |
| 0.2650000000 | 0.6702726782 |
| 0.2700000000 | 0.6780428188 |
| 0.2750000000 | 0.6858417631 |
| 0.2800000000 | 0.6936657273 |
| 0.2850000000 | 0.7014579079 |
| 0.2900000000 | 0.7092746194 |
| 0.2950000000 | 0.7171030258 |
| 0.3000000000 | 0.7249706878 |
| 0.3050000000 | 0.7328720790 |
| 0.3100000000 | 0.7407526707 |
| 0.3150000000 | 0.7487149316 |
| 0.3200000000 | 0.7566874296 |
| 0.3250000000 | 0.7646871774 |
| 0.3300000000 | 0.7727257015 |
| 0.3350000000 | 0.7807945073 |
| 0.3400000000 | 0.7889174098 |
| 0.3450000000 | 0.7970633667 |
| 0.3500000000 | 0.8052429437 |
| 0.3550000000 | 0.8134783396 |
| 0.3600000000 | 0.8217311638 |
| 0.3650000000 | 0.8300459608 |
| 0.3700000000 | 0.8384136910 |

| | |
|--------------|--------------|
| 0.3750000000 | 0.8468354325 |
| 0.3800000000 | 0.8553059758 |
| 0.3850000000 | 0.8638333139 |
| 0.3900000000 | 0.8724216296 |
| 0.3950000000 | 0.8810913417 |
| 0.4000000000 | 0.8898170962 |
| 0.4050000000 | 0.8985709065 |
| 0.4100000000 | 0.9074042234 |
| 0.4150000000 | 0.9163151530 |
| 0.4200000000 | 0.9252908321 |
| 0.4250000000 | 0.9343408925 |
| 0.4300000000 | 0.9434924997 |
| 0.4350000000 | 0.9526914171 |
| 0.4400000000 | 0.9619758920 |
| 0.4450000000 | 0.9713346252 |
| 0.4500000000 | 0.9808090004 |
| 0.4550000000 | 0.9903737541 |
| 0.4600000000 | 1.0000244614 |
| 0.4650000000 | 1.0097452872 |
| 0.4700000000 | 1.0195846551 |
| 0.4750000000 | 1.0295042823 |
| 0.4800000000 | 1.0395072508 |
| 0.4850000000 | 1.0496846589 |
| 0.4900000000 | 1.0599299147 |
| 0.4950000000 | 1.0702793755 |
| 0.5000000000 | 1.0807745676 |
| 0.5050000000 | 1.0913171911 |
| 0.5100000000 | 1.1019808849 |
| 0.5150000000 | 1.1127992888 |
| 0.5200000000 | 1.1237698786 |
| 0.5250000000 | 1.1348400704 |
| 0.5300000000 | 1.1460445943 |
| 0.5350000000 | 1.1574577089 |
| 0.5400000000 | 1.1689858520 |
| 0.5450000000 | 1.1806626907 |
| 0.5500000000 | 1.1924842140 |
| 0.5550000000 | 1.2044806846 |
| 0.5600000000 | 1.2166237898 |
| 0.5650000000 | 1.2289287183 |
| 0.5700000000 | 1.2413974717 |
| 0.5750000000 | 1.2541159677 |
| 0.5800000000 | 1.2669892216 |
| 0.5850000000 | 1.2800278410 |
| 0.5900000000 | 1.2932895399 |
| 0.5950000000 | 1.3067387664 |
| 0.6000000000 | 1.3204269158 |
| 0.6050000000 | 1.3342969000 |
| 0.6100000000 | 1.3484045561 |
| 0.6150000000 | 1.3627481390 |
| 0.6200000000 | 1.3773544493 |
| 0.6250000000 | 1.3921876117 |
| 0.6300000000 | 1.4072192200 |
| 0.6350000000 | 1.4225565540 |
| 0.6400000000 | 1.4382049008 |
| 0.6450000000 | 1.4541982624 |
| 0.6500000000 | 1.4703921843 |
| 0.6550000000 | 1.4869138183 |
| 0.6600000000 | 1.5037597997 |
| 0.6650000000 | 1.5209668116 |
| 0.6700000000 | 1.5385207888 |
| 0.6750000000 | 1.5564184652 |
| 0.6800000000 | 1.5747074175 |
| 0.6850000000 | 1.5933806171 |
| 0.6900000000 | 1.6124806849 |
| 0.6950000000 | 1.6320367280 |
| 0.7000000000 | 1.6519586094 |
| 0.7050000000 | 1.6723808404 |
| 0.7100000000 | 1.6932432408 |
| 0.7150000000 | 1.7146182734 |
| 0.7200000000 | 1.7365654523 |
| 0.7250000000 | 1.7590180751 |
| 0.7300000000 | 1.7820817399 |
| 0.7350000000 | 1.8056934805 |
| 0.7400000000 | 1.8299662374 |
| 0.7450000000 | 1.8548927437 |

| | |
|--------------|---------------|
| 0.7500000000 | 1.8804934945 |
| 0.7550000000 | 1.9068516917 |
| 0.7600000000 | 1.9339626616 |
| 0.7650000000 | 1.9619175997 |
| 0.7700000000 | 1.9906505017 |
| 0.7750000000 | 2.0202880829 |
| 0.7800000000 | 2.0509204859 |
| 0.7850000000 | 2.0824816327 |
| 0.7900000000 | 2.1151800612 |
| 0.7950000000 | 2.1490547164 |
| 0.8000000000 | 2.1840669717 |
| 0.8050000000 | 2.2203813917 |
| 0.8100000000 | 2.2578568338 |
| 0.8150000000 | 2.2968726964 |
| 0.8200000000 | 2.3374244246 |
| 0.8250000000 | 2.3795622754 |
| 0.8300000000 | 2.4234341584 |
| 0.8350000000 | 2.4692899105 |
| 0.8400000000 | 2.5171948346 |
| 0.8450000000 | 2.5674204860 |
| 0.8500000000 | 2.6199474891 |
| 0.8550000000 | 2.6750249408 |
| 0.8600000000 | 2.7329608863 |
| 0.8650000000 | 2.7941040007 |
| 0.8700000000 | 2.8585504388 |
| 0.8750000000 | 2.9267529877 |
| 0.8800000000 | 2.9991889762 |
| 0.8850000000 | 3.0758745355 |
| 0.8900000000 | 3.1577244918 |
| 0.8950000000 | 3.2455252463 |
| 0.9000000000 | 3.3393558799 |
| 0.9050000000 | 3.4401762958 |
| 0.9100000000 | 3.5493575120 |
| 0.9150000000 | 3.6675846113 |
| 0.9200000000 | 3.7964515249 |
| 0.9250000000 | 3.9379488628 |
| 0.9300000000 | 4.0945140563 |
| 0.9350000000 | 4.2685836662 |
| 0.9400000000 | 4.4632235417 |
| 0.9450000000 | 4.6831345135 |
| 0.9500000000 | 4.9360514607 |
| 0.9550000000 | 5.2299036680 |
| 0.9600000000 | 5.5763541444 |
| 0.9650000000 | 5.9933644185 |
| 0.9700000000 | 6.5088100592 |
| 0.9750000000 | 7.1735841143 |
| 0.9800000000 | 8.0733762226 |
| 0.9850000000 | 9.3869045850 |
| 0.9900000000 | 11.5916990076 |
| 0.9950000000 | 16.5641476980 |

5.7)n=5, $\rho=0.7$

$f_z(z), F_z(z)$



Coefficient

| | |
|--------------------|--------------|
| Mathematical Mean: | 1.61354 |
| Geometrical Mean : | 1.09159 |
| Harmonic Mean : | 0.68058 |
| Variance : | 13.50996 |
| S.D. : | 3.67559 |
| Skewed Coef. : | 304.81870 |
| Kurtosis Coef. : | 325164.39196 |
| MAD : | 1.09259 |
| Range : | 5625.28105 |
| Mid_range : | 2812.64052 |
| Median : | 1.06335 |
| Q1 : | 0.66793 |
| Q2 : | 1.06335 |
| Q3 : | 1.76247 |
| IQR : | 1.09455 |
| C.V. : | 2.27796 |

the critical value table

| | | | | | |
|-------|--------------|-------------------|--------------|---------------|--|
| | | significant level | | | |
| value | 0.995 | 0.99 | 0.975 | 0.95 | |
| | 0.0774835661 | 0.1225118710 | 0.2131715909 | 0.3079702470 | |
| | | significant level | | | |
| value | 0.05 | 0.025 | 0.01 | 0.005 | |
| | 4.3107547642 | 6.1363811284 | 9.7113878371 | 13.7168293688 | |

Note: the critical value table

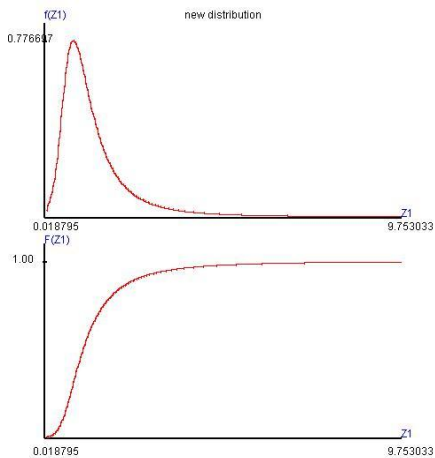
| | |
|--------------|--------------|
| 0.0050000000 | 0.0774835661 |
| 0.0100000000 | 0.1225118710 |
| 0.0150000000 | 0.1578172057 |
| 0.0200000000 | 0.1874774534 |
| 0.0250000000 | 0.2131715909 |
| 0.0300000000 | 0.2358924504 |
| 0.0350000000 | 0.2563429542 |
| 0.0400000000 | 0.2749762388 |
| 0.0450000000 | 0.2920923572 |
| 0.0500000000 | 0.3079702470 |
| 0.0550000000 | 0.3227893079 |
| 0.0600000000 | 0.3367317593 |
| 0.0650000000 | 0.3499425108 |
| 0.0700000000 | 0.3625261948 |
| 0.0750000000 | 0.3745216817 |
| 0.0800000000 | 0.3859922236 |
| 0.0850000000 | 0.3970210549 |
| 0.0900000000 | 0.4077133939 |
| 0.0950000000 | 0.4180324961 |
| 0.1000000000 | 0.4280747725 |
| 0.1050000000 | 0.4378308631 |
| 0.1100000000 | 0.4473503931 |
| 0.1150000000 | 0.4566431342 |
| 0.1200000000 | 0.4657503970 |
| 0.1250000000 | 0.4746457796 |
| 0.1300000000 | 0.4833891495 |
| 0.1350000000 | 0.4919806392 |
| 0.1400000000 | 0.5004276220 |
| 0.1450000000 | 0.5087710038 |
| 0.1500000000 | 0.5169821842 |
| 0.1550000000 | 0.5250888134 |
| 0.1600000000 | 0.5330916611 |
| 0.1650000000 | 0.5410115176 |
| 0.1700000000 | 0.5488544812 |
| 0.1750000000 | 0.5566446874 |
| 0.1800000000 | 0.5643614836 |
| 0.1850000000 | 0.5720036172 |
| 0.1900000000 | 0.5796004370 |
| 0.1950000000 | 0.5871339415 |
| 0.2000000000 | 0.5946258122 |
| 0.2050000000 | 0.6020970880 |
| 0.2100000000 | 0.6095244315 |
| 0.2150000000 | 0.6168951097 |
| 0.2200000000 | 0.6242119393 |
| 0.2250000000 | 0.6315350409 |
| 0.2300000000 | 0.6388613889 |
| 0.2350000000 | 0.6461448313 |
| 0.2400000000 | 0.6534067145 |
| 0.2450000000 | 0.6606586981 |
| 0.2500000000 | 0.6679277649 |
| 0.2550000000 | 0.6751746498 |
| 0.2600000000 | 0.6824206747 |
| 0.2650000000 | 0.6896844297 |
| 0.2700000000 | 0.6969153326 |
| 0.2750000000 | 0.7041510101 |
| 0.2800000000 | 0.7113828540 |
| 0.2850000000 | 0.7186315631 |
| 0.2900000000 | 0.7258943730 |
| 0.2950000000 | 0.7331552070 |
| 0.3000000000 | 0.7404244874 |
| 0.3050000000 | 0.7477033809 |
| 0.3100000000 | 0.7549965720 |
| 0.3150000000 | 0.7623100887 |
| 0.3200000000 | 0.7696802964 |
| 0.3250000000 | 0.7770282332 |
| 0.3300000000 | 0.7844133317 |
| 0.3350000000 | 0.7917974426 |
| 0.3400000000 | 0.7992625584 |
| 0.3450000000 | 0.8067644496 |
| 0.3500000000 | 0.8142474181 |
| 0.3550000000 | 0.8217797635 |
| 0.3600000000 | 0.8293481281 |
| 0.3650000000 | 0.8369442162 |
| 0.3700000000 | 0.8445878492 |

| | |
|--------------|--------------|
| 0.3750000000 | 0.8522629319 |
| 0.3800000000 | 0.8600113739 |
| 0.3850000000 | 0.8677686489 |
| 0.3900000000 | 0.8755920590 |
| 0.3950000000 | 0.8834509936 |
| 0.4000000000 | 0.8913401429 |
| 0.4050000000 | 0.8993068052 |
| 0.4100000000 | 0.9073123995 |
| 0.4150000000 | 0.9154188520 |
| 0.4200000000 | 0.9235760475 |
| 0.4250000000 | 0.9317732873 |
| 0.4300000000 | 0.9400294398 |
| 0.4350000000 | 0.9483387554 |
| 0.4400000000 | 0.9567302374 |
| 0.4450000000 | 0.9651672747 |
| 0.4500000000 | 0.9737130300 |
| 0.4550000000 | 0.9823278512 |
| 0.4600000000 | 0.9909840244 |
| 0.4650000000 | 0.9997219316 |
| 0.4700000000 | 1.0085690924 |
| 0.4750000000 | 1.0174918479 |
| 0.4800000000 | 1.0264838780 |
| 0.4850000000 | 1.0355820919 |
| 0.4900000000 | 1.0447643270 |
| 0.4950000000 | 1.0540049814 |
| 0.5000000000 | 1.0633494949 |
| 0.5050000000 | 1.0728374452 |
| 0.5100000000 | 1.0823893664 |
| 0.5150000000 | 1.0920549067 |
| 0.5200000000 | 1.1018494358 |
| 0.5250000000 | 1.1117120523 |
| 0.5300000000 | 1.1216927028 |
| 0.5350000000 | 1.1318297863 |
| 0.5400000000 | 1.1420738292 |
| 0.5450000000 | 1.1524814429 |
| 0.5500000000 | 1.1629481591 |
| 0.5550000000 | 1.1735652738 |
| 0.5600000000 | 1.1843240549 |
| 0.5650000000 | 1.1952283110 |
| 0.5700000000 | 1.2062653660 |
| 0.5750000000 | 1.2174654807 |
| 0.5800000000 | 1.2288087879 |
| 0.5850000000 | 1.2403670218 |
| 0.5900000000 | 1.2520603703 |
| 0.5950000000 | 1.2639385115 |
| 0.6000000000 | 1.2759587362 |
| 0.6050000000 | 1.2881650519 |
| 0.6100000000 | 1.3005914420 |
| 0.6150000000 | 1.3131742441 |
| 0.6200000000 | 1.3260069689 |
| 0.6250000000 | 1.3390253797 |
| 0.6300000000 | 1.3522953368 |
| 0.6350000000 | 1.3657804204 |
| 0.6400000000 | 1.3794706315 |
| 0.6450000000 | 1.3934408552 |
| 0.6500000000 | 1.4075965590 |
| 0.6550000000 | 1.4221315074 |
| 0.6600000000 | 1.4367894098 |
| 0.6650000000 | 1.4517588778 |
| 0.6700000000 | 1.4669923579 |
| 0.6750000000 | 1.4826201910 |
| 0.6800000000 | 1.4985359713 |
| 0.6850000000 | 1.5147311019 |
| 0.6900000000 | 1.5313218027 |
| 0.6950000000 | 1.5482116247 |
| 0.7000000000 | 1.5655546301 |
| 0.7050000000 | 1.5832760750 |
| 0.7100000000 | 1.6013095048 |
| 0.7150000000 | 1.6197988806 |
| 0.7200000000 | 1.6386922674 |
| 0.7250000000 | 1.6580350822 |
| 0.7300000000 | 1.6779103988 |
| 0.7350000000 | 1.6982213528 |
| 0.7400000000 | 1.7191110129 |
| 0.7450000000 | 1.7404876363 |

| | |
|--------------|---------------|
| 0.7500000000 | 1.7624733543 |
| 0.7550000000 | 1.7851280189 |
| 0.7600000000 | 1.8083591770 |
| 0.7650000000 | 1.8322651078 |
| 0.7700000000 | 1.8568687479 |
| 0.7750000000 | 1.8821241884 |
| 0.7800000000 | 1.9082456370 |
| 0.7850000000 | 1.9351722762 |
| 0.7900000000 | 1.9630662174 |
| 0.7950000000 | 1.9918276309 |
| 0.8000000000 | 2.0215357801 |
| 0.8050000000 | 2.0523020217 |
| 0.8100000000 | 2.0841258740 |
| 0.8150000000 | 2.1173303789 |
| 0.8200000000 | 2.1517248767 |
| 0.8250000000 | 2.1874612696 |
| 0.8300000000 | 2.2246638369 |
| 0.8350000000 | 2.2635366322 |
| 0.8400000000 | 2.3040395309 |
| 0.8450000000 | 2.3464860665 |
| 0.8500000000 | 2.3907506942 |
| 0.8550000000 | 2.4371344780 |
| 0.8600000000 | 2.4859350309 |
| 0.8650000000 | 2.5372670837 |
| 0.8700000000 | 2.5913983732 |
| 0.8750000000 | 2.6484712211 |
| 0.8800000000 | 2.7089674104 |
| 0.8850000000 | 2.7731172585 |
| 0.8900000000 | 2.8417374419 |
| 0.8950000000 | 2.9143924382 |
| 0.9000000000 | 2.9922908827 |
| 0.9050000000 | 3.0761261322 |
| 0.9100000000 | 3.1670820624 |
| 0.9150000000 | 3.2652492164 |
| 0.9200000000 | 3.3720854867 |
| 0.9250000000 | 3.4894552658 |
| 0.9300000000 | 3.6186135426 |
| 0.9350000000 | 3.7618163056 |
| 0.9400000000 | 3.9221004932 |
| 0.9450000000 | 4.1035618006 |
| 0.9500000000 | 4.3107547642 |
| 0.9550000000 | 4.5507228633 |
| 0.9600000000 | 4.8334426646 |
| 0.9650000000 | 5.1752484478 |
| 0.9700000000 | 5.5962912781 |
| 0.9750000000 | 6.1363811284 |
| 0.9800000000 | 6.8646091213 |
| 0.9850000000 | 7.9313923394 |
| 0.9900000000 | 9.7113878371 |
| 0.9950000000 | 13.7168293688 |

5.8) $n=5, \rho=0.8$

$f_z(z), F_z(z)$



Coefficient

| | |
|--------------------|--------------|
| Mathematical Mean: | 1.42289 |
| Geometrical Mean : | 1.06751 |
| Harmonic Mean : | 0.75100 |
| Variance : | 6.23879 |
| S.D. : | 2.49776 |
| Skewed Coef. : | 420.71513 |
| Kurtosis Coef. : | 777519.37950 |
| MAD : | 0.82135 |
| Range : | 6457.30735 |
| Mid_range : | 3228.65368 |
| Median : | 1.04356 |
| Q1 : | 0.70140 |
| Q2 : | 1.04356 |
| Q3 : | 1.60638 |
| IQR : | 0.90498 |
| C.V. : | 1.75541 |

the critical value table

| | | | | |
|-------|-------------------|--------------|--------------|--------------|
| | significant level | | | |
| value | 0.995 | 0.99 | 0.975 | 0.95 |
| | 0.1042023740 | 0.1600893879 | 0.2640841730 | 0.3630637109 |
| | significant level | | | |
| value | 0.05 | 0.025 | 0.01 | 0.005 |
| | 3.4667975977 | 4.7277573540 | 7.1290464512 | 9.7718511517 |

Note: the critical value table

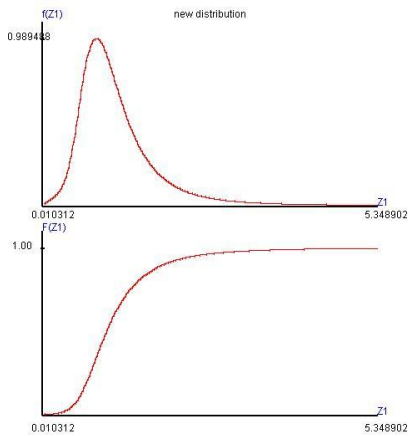
| | |
|--------------|--------------|
| 0.0050000000 | 0.1042023740 |
| 0.0100000000 | 0.1600893879 |
| 0.0150000000 | 0.2018681780 |
| 0.0200000000 | 0.2356537334 |
| 0.0250000000 | 0.2640841730 |
| 0.0300000000 | 0.2885802181 |
| 0.0350000000 | 0.3101404100 |
| 0.0400000000 | 0.3294612865 |
| 0.0450000000 | 0.3469895964 |
| 0.0500000000 | 0.3630637109 |
| 0.0550000000 | 0.3779091779 |
| 0.0600000000 | 0.3917304549 |
| 0.0650000000 | 0.4047124140 |
| 0.0700000000 | 0.4170288145 |
| 0.0750000000 | 0.4286613556 |
| 0.0800000000 | 0.4398144267 |
| 0.0850000000 | 0.4504796284 |
| 0.0900000000 | 0.4607431567 |
| 0.0950000000 | 0.4706422145 |
| 0.1000000000 | 0.4802025659 |
| 0.1050000000 | 0.4894758154 |
| 0.1100000000 | 0.4985000225 |
| 0.1150000000 | 0.5073036015 |
| 0.1200000000 | 0.5158574159 |
| 0.1250000000 | 0.5242077059 |
| 0.1300000000 | 0.5324228805 |
| 0.1350000000 | 0.5404714758 |
| 0.1400000000 | 0.5483488481 |
| 0.1450000000 | 0.5560961896 |
| 0.1500000000 | 0.5637275122 |
| 0.1550000000 | 0.5712658796 |
| 0.1600000000 | 0.5786669365 |
| 0.1650000000 | 0.5859964903 |
| 0.1700000000 | 0.5932206196 |
| 0.1750000000 | 0.6003638534 |
| 0.1800000000 | 0.6074341143 |
| 0.1850000000 | 0.6144517426 |
| 0.1900000000 | 0.6214081448 |
| 0.1950000000 | 0.6283018173 |
| 0.2000000000 | 0.6351293438 |
| 0.2050000000 | 0.6419288411 |
| 0.2100000000 | 0.6486479131 |
| 0.2150000000 | 0.6553675420 |
| 0.2200000000 | 0.6620445711 |
| 0.2250000000 | 0.6686651522 |
| 0.2300000000 | 0.6752878206 |
| 0.2350000000 | 0.6818318731 |
| 0.2400000000 | 0.6883927770 |
| 0.2450000000 | 0.6949137764 |
| 0.2500000000 | 0.7014012161 |
| 0.2550000000 | 0.7079037794 |
| 0.2600000000 | 0.7143779945 |
| 0.2650000000 | 0.7208433889 |
| 0.2700000000 | 0.7272914434 |
| 0.2750000000 | 0.7337465100 |
| 0.2800000000 | 0.7401992589 |
| 0.2850000000 | 0.7466279338 |
| 0.2900000000 | 0.7530556814 |
| 0.2950000000 | 0.7594945818 |
| 0.3000000000 | 0.7659318492 |
| 0.3050000000 | 0.7723620435 |
| 0.3100000000 | 0.7788136503 |
| 0.3150000000 | 0.7852505791 |
| 0.3200000000 | 0.7916966477 |
| 0.3250000000 | 0.7981931433 |
| 0.3300000000 | 0.8046773915 |
| 0.3350000000 | 0.8111822836 |
| 0.3400000000 | 0.8176940749 |
| 0.3450000000 | 0.8242422218 |
| 0.3500000000 | 0.8307926146 |
| 0.3550000000 | 0.8373487662 |
| 0.3600000000 | 0.8439105492 |
| 0.3650000000 | 0.8505066556 |
| 0.3700000000 | 0.8571311917 |

| | |
|--------------|--------------|
| 0.3750000000 | 0.8637996905 |
| 0.3800000000 | 0.8705074004 |
| 0.3850000000 | 0.8772102057 |
| 0.3900000000 | 0.8839313647 |
| 0.3950000000 | 0.8907181765 |
| 0.4000000000 | 0.8975143378 |
| 0.4050000000 | 0.9043748280 |
| 0.4100000000 | 0.9112477975 |
| 0.4150000000 | 0.9181993858 |
| 0.4200000000 | 0.9251976815 |
| 0.4250000000 | 0.9322007170 |
| 0.4300000000 | 0.9392747394 |
| 0.4350000000 | 0.9463650617 |
| 0.4400000000 | 0.9534995918 |
| 0.4450000000 | 0.9606951652 |
| 0.4500000000 | 0.9679166618 |
| 0.4550000000 | 0.9752173121 |
| 0.4600000000 | 0.9825939329 |
| 0.4650000000 | 0.9899926084 |
| 0.4700000000 | 0.9974677224 |
| 0.4750000000 | 1.0050037751 |
| 0.4800000000 | 1.0125974505 |
| 0.4850000000 | 1.0202301110 |
| 0.4900000000 | 1.0279341240 |
| 0.4950000000 | 1.0357123863 |
| 0.5000000000 | 1.0435649090 |
| 0.5050000000 | 1.0514794063 |
| 0.5100000000 | 1.0594857658 |
| 0.5150000000 | 1.0675668343 |
| 0.5200000000 | 1.0756951935 |
| 0.5250000000 | 1.0839523895 |
| 0.5300000000 | 1.0922537411 |
| 0.5350000000 | 1.1006651742 |
| 0.5400000000 | 1.1091677227 |
| 0.5450000000 | 1.1177676498 |
| 0.5500000000 | 1.1264452679 |
| 0.5550000000 | 1.1352659899 |
| 0.5600000000 | 1.1441274552 |
| 0.5650000000 | 1.1531331560 |
| 0.5700000000 | 1.1622441648 |
| 0.5750000000 | 1.1714551029 |
| 0.5800000000 | 1.1807670015 |
| 0.5850000000 | 1.1902304746 |
| 0.5900000000 | 1.1997920878 |
| 0.5950000000 | 1.2094498126 |
| 0.6000000000 | 1.2192729239 |
| 0.6050000000 | 1.2292182984 |
| 0.6100000000 | 1.2393418130 |
| 0.6150000000 | 1.2496120112 |
| 0.6200000000 | 1.2600459420 |
| 0.6250000000 | 1.2705855445 |
| 0.6300000000 | 1.2813087048 |
| 0.6350000000 | 1.2921973011 |
| 0.6400000000 | 1.3032625721 |
| 0.6450000000 | 1.3144793063 |
| 0.6500000000 | 1.3258778268 |
| 0.6550000000 | 1.3374889459 |
| 0.6600000000 | 1.3492895427 |
| 0.6650000000 | 1.3613168957 |
| 0.6700000000 | 1.3735428869 |
| 0.6750000000 | 1.3860001578 |
| 0.6800000000 | 1.3986724193 |
| 0.6850000000 | 1.4115754360 |
| 0.6900000000 | 1.4247347679 |
| 0.6950000000 | 1.4381517025 |
| 0.7000000000 | 1.4518023335 |
| 0.7050000000 | 1.4657847521 |
| 0.7100000000 | 1.4800480671 |
| 0.7150000000 | 1.4946123697 |
| 0.7200000000 | 1.5094898833 |
| 0.7250000000 | 1.5247064668 |
| 0.7300000000 | 1.5402882991 |
| 0.7350000000 | 1.5562417660 |
| 0.7400000000 | 1.5725247518 |
| 0.7450000000 | 1.5892354890 |

| | |
|--------------|--------------|
| 0.7500000000 | 1.6063783010 |
| 0.7550000000 | 1.6238671950 |
| 0.7600000000 | 1.6418573228 |
| 0.7650000000 | 1.6603455803 |
| 0.7700000000 | 1.6793167683 |
| 0.7750000000 | 1.6989062397 |
| 0.7800000000 | 1.7190828815 |
| 0.7850000000 | 1.7397619032 |
| 0.7900000000 | 1.7611263769 |
| 0.7950000000 | 1.7832124580 |
| 0.8000000000 | 1.8059635723 |
| 0.8050000000 | 1.8294903787 |
| 0.8100000000 | 1.8538674413 |
| 0.8150000000 | 1.8789870411 |
| 0.8200000000 | 1.9050774859 |
| 0.8250000000 | 1.9321488885 |
| 0.8300000000 | 1.9602242157 |
| 0.8350000000 | 1.9894156543 |
| 0.8400000000 | 2.0198037881 |
| 0.8450000000 | 2.0515244939 |
| 0.8500000000 | 2.0846714202 |
| 0.8550000000 | 2.1192659807 |
| 0.8600000000 | 2.1555278581 |
| 0.8650000000 | 2.1935095040 |
| 0.8700000000 | 2.2336019024 |
| 0.8750000000 | 2.2758801914 |
| 0.8800000000 | 2.3204685882 |
| 0.8850000000 | 2.3675702786 |
| 0.8900000000 | 2.4176774085 |
| 0.8950000000 | 2.4708781796 |
| 0.9000000000 | 2.5276999548 |
| 0.9050000000 | 2.5885681151 |
| 0.9100000000 | 2.6541363526 |
| 0.9150000000 | 2.7249264057 |
| 0.9200000000 | 2.8022923527 |
| 0.9250000000 | 2.8862240278 |
| 0.9300000000 | 2.9784241957 |
| 0.9350000000 | 3.0801350519 |
| 0.9400000000 | 3.1935947835 |
| 0.9450000000 | 3.3212567568 |
| 0.9500000000 | 3.4667975977 |
| 0.9550000000 | 3.6347210921 |
| 0.9600000000 | 3.8322199531 |
| 0.9650000000 | 4.0675207542 |
| 0.9700000000 | 4.3572023972 |
| 0.9750000000 | 4.7277573540 |
| 0.9800000000 | 5.2244807652 |
| 0.9850000000 | 5.9397169075 |
| 0.9900000000 | 7.1290464512 |
| 0.9950000000 | 9.7718511517 |

5.9) $n=5, \rho=0.9$

$f_z(z), F_z(z)$



Coefficient

| | |
|--------------------|--------------|
| Mathematical Mean: | 1.20513 |
| Geometrical Mean : | 1.03463 |
| Harmonic Mean : | 0.85082 |
| Variance : | 1.29018 |
| S.D. : | 1.13586 |
| Skewed Coef. : | 200.71068 |
| Kurtosis Coef. : | 211201.45673 |
| MAD : | 0.49873 |
| Range : | 1933.77849 |
| Mid_range : | 966.88925 |
| Median : | 1.02198 |
| Q1 : | 0.76115 |
| Q2 : | 1.02198 |
| Q3 : | 1.40075 |
| IQR : | 0.63960 |
| C.V. : | 0.94253 |

the critical value table

| | | significant level | | | |
|-------|--------------|-------------------|--------------|--------------|--|
| value | 0.995 | 0.99 | 0.975 | 0.95 | |
| | 0.1715484250 | 0.2475253109 | 0.3681703091 | 0.4669746931 | |

| | | significant level | | | |
|-------|--------------|-------------------|--------------|--------------|--|
| value | 0.05 | 0.025 | 0.01 | 0.005 | |
| | 2.4441121673 | 3.0684960174 | 4.1844304091 | 5.3592170552 | |

Note: the critical value table

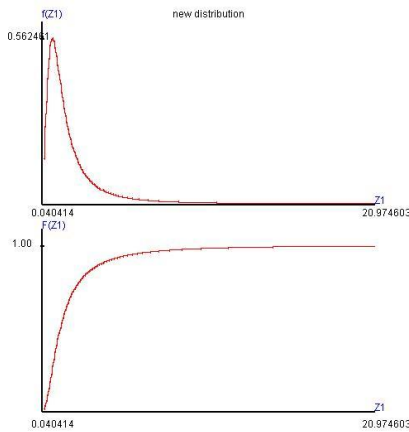
| | |
|--------------|--------------|
| 0.0050000000 | 0.1715484250 |
| 0.0100000000 | 0.2475253109 |
| 0.0150000000 | 0.2988868728 |
| 0.0200000000 | 0.3373979895 |
| 0.0250000000 | 0.3681703091 |
| 0.0300000000 | 0.3937500672 |
| 0.0350000000 | 0.4155624581 |
| 0.0400000000 | 0.4346250466 |
| 0.0450000000 | 0.4516302711 |
| 0.0500000000 | 0.4669746931 |
| 0.0550000000 | 0.4810184986 |
| 0.0600000000 | 0.4939494329 |
| 0.0650000000 | 0.5059776175 |
| 0.0700000000 | 0.5172883985 |
| 0.0750000000 | 0.5279390964 |
| 0.0800000000 | 0.5380183152 |
| 0.0850000000 | 0.5476330793 |
| 0.0900000000 | 0.5568034075 |
| 0.0950000000 | 0.5656246200 |
| 0.1000000000 | 0.5741033400 |
| 0.1050000000 | 0.5823024297 |
| 0.1100000000 | 0.5902373050 |
| 0.1150000000 | 0.5979435583 |
| 0.1200000000 | 0.6054437383 |
| 0.1250000000 | 0.6127313658 |
| 0.1300000000 | 0.6198430680 |
| 0.1350000000 | 0.6267780665 |
| 0.1400000000 | 0.6335749712 |
| 0.1450000000 | 0.6402214037 |
| 0.1500000000 | 0.6467511180 |
| 0.1550000000 | 0.6531560983 |
| 0.1600000000 | 0.6594626786 |
| 0.1650000000 | 0.6656660987 |
| 0.1700000000 | 0.6717811840 |
| 0.1750000000 | 0.6778154452 |
| 0.1800000000 | 0.6837857249 |
| 0.1850000000 | 0.6896535376 |
| 0.1900000000 | 0.6954757331 |
| 0.1950000000 | 0.7011955961 |
| 0.2000000000 | 0.7068793470 |
| 0.2050000000 | 0.7125079173 |
| 0.2100000000 | 0.7180830475 |
| 0.2150000000 | 0.7235972504 |
| 0.2200000000 | 0.7290689833 |
| 0.2250000000 | 0.7345075465 |
| 0.2300000000 | 0.7399139709 |
| 0.2350000000 | 0.7452520916 |
| 0.2400000000 | 0.7505776105 |
| 0.2450000000 | 0.7558778918 |
| 0.2500000000 | 0.7611501143 |
| 0.2550000000 | 0.7663700351 |
| 0.2600000000 | 0.7715618062 |
| 0.2650000000 | 0.7767525716 |
| 0.2700000000 | 0.7819301054 |
| 0.2750000000 | 0.7870718990 |
| 0.2800000000 | 0.7922289667 |
| 0.2850000000 | 0.7973383445 |
| 0.2900000000 | 0.8024607730 |
| 0.2950000000 | 0.8075592940 |
| 0.3000000000 | 0.8126437024 |
| 0.3050000000 | 0.8177004573 |
| 0.3100000000 | 0.8227793480 |
| 0.3150000000 | 0.8278481568 |
| 0.3200000000 | 0.8329164551 |
| 0.3250000000 | 0.8379602215 |
| 0.3300000000 | 0.8430170437 |
| 0.3350000000 | 0.8480559933 |
| 0.3400000000 | 0.8531104951 |
| 0.3450000000 | 0.8581596223 |
| 0.3500000000 | 0.8632184848 |
| 0.3550000000 | 0.8682777191 |
| 0.3600000000 | 0.8733459982 |
| 0.3650000000 | 0.8784180406 |
| 0.3700000000 | 0.8835044342 |
| 0.3750000000 | 0.8886028077 |

| | |
|--------------|--------------|
| 0.3800000000 | 0.8937066858 |
| 0.3850000000 | 0.8988089481 |
| 0.3900000000 | 0.9039492378 |
| 0.3950000000 | 0.9090911249 |
| 0.4000000000 | 0.9142235445 |
| 0.4050000000 | 0.9193914512 |
| 0.4100000000 | 0.9245783776 |
| 0.4150000000 | 0.9297820329 |
| 0.4200000000 | 0.9349936202 |
| 0.4250000000 | 0.9402265015 |
| 0.4300000000 | 0.9454925644 |
| 0.4350000000 | 0.9507670864 |
| 0.4400000000 | 0.9560728455 |
| 0.4450000000 | 0.9613938692 |
| 0.4500000000 | 0.9667605974 |
| 0.4550000000 | 0.9721460472 |
| 0.4600000000 | 0.9775622924 |
| 0.4650000000 | 0.9830049414 |
| 0.4700000000 | 0.9884718176 |
| 0.4750000000 | 0.9939638130 |
| 0.4800000000 | 0.9994889290 |
| 0.4850000000 | 1.0050557453 |
| 0.4900000000 | 1.0106452537 |
| 0.4950000000 | 1.0162912375 |
| 0.5000000000 | 1.0219811686 |
| 0.5050000000 | 1.0276781560 |
| 0.5100000000 | 1.0334258436 |
| 0.5150000000 | 1.0392262439 |
| 0.5200000000 | 1.0450702984 |
| 0.5250000000 | 1.0509421548 |
| 0.5300000000 | 1.0568644139 |
| 0.5350000000 | 1.0628492215 |
| 0.5400000000 | 1.0688885351 |
| 0.5450000000 | 1.0749606785 |
| 0.5500000000 | 1.0810847534 |
| 0.5550000000 | 1.0872553887 |
| 0.5600000000 | 1.0935072397 |
| 0.5650000000 | 1.0997955064 |
| 0.5700000000 | 1.1061612130 |
| 0.5750000000 | 1.1125661006 |
| 0.5800000000 | 1.1190459429 |
| 0.5850000000 | 1.1255980107 |
| 0.5900000000 | 1.1322195370 |
| 0.5950000000 | 1.1389124174 |
| 0.6000000000 | 1.1456643510 |
| 0.6050000000 | 1.1525121619 |
| 0.6100000000 | 1.1594337326 |
| 0.6150000000 | 1.1664529224 |
| 0.6200000000 | 1.1735590296 |
| 0.6250000000 | 1.1807371534 |
| 0.6300000000 | 1.1879934948 |
| 0.6350000000 | 1.1953992327 |
| 0.6400000000 | 1.2028637924 |
| 0.6450000000 | 1.2104310659 |
| 0.6500000000 | 1.2180936555 |
| 0.6550000000 | 1.2258808030 |
| 0.6600000000 | 1.2337730809 |
| 0.6650000000 | 1.2417720380 |
| 0.6700000000 | 1.2498925359 |
| 0.6750000000 | 1.2581374171 |
| 0.6800000000 | 1.2665245304 |
| 0.6850000000 | 1.2750432201 |
| 0.6900000000 | 1.2836832761 |
| 0.6950000000 | 1.2924672961 |
| 0.7000000000 | 1.3014033194 |
| 0.7050000000 | 1.3105266119 |
| 0.7100000000 | 1.3198197912 |
| 0.7150000000 | 1.3292484786 |
| 0.7200000000 | 1.3388235979 |
| 0.7250000000 | 1.3486252472 |
| 0.7300000000 | 1.3586200763 |
| 0.7350000000 | 1.3688461260 |
| 0.7400000000 | 1.3792637251 |
| 0.7450000000 | 1.3898849309 |
| 0.7500000000 | 1.4007499248 |

| | |
|--------------|--------------|
| 0.7550000000 | 1.4118603615 |
| 0.7600000000 | 1.4232375879 |
| 0.7650000000 | 1.4348535121 |
| 0.7700000000 | 1.4467290529 |
| 0.7750000000 | 1.4589400442 |
| 0.7800000000 | 1.4713979925 |
| 0.7850000000 | 1.4842399799 |
| 0.7900000000 | 1.4974110389 |
| 0.7950000000 | 1.5109372257 |
| 0.8000000000 | 1.5248869648 |
| 0.8050000000 | 1.5392295156 |
| 0.8100000000 | 1.5539801542 |
| 0.8150000000 | 1.5691722190 |
| 0.8200000000 | 1.5849099152 |
| 0.8250000000 | 1.6011440160 |
| 0.8300000000 | 1.6179234212 |
| 0.8350000000 | 1.6352910519 |
| 0.8400000000 | 1.6532883628 |
| 0.8450000000 | 1.6719844452 |
| 0.8500000000 | 1.6914080982 |
| 0.8550000000 | 1.7116665844 |
| 0.8600000000 | 1.7327866007 |
| 0.8650000000 | 1.7548276007 |
| 0.8700000000 | 1.7779185237 |
| 0.8750000000 | 1.8020747789 |
| 0.8800000000 | 1.8274477900 |
| 0.8850000000 | 1.8542034482 |
| 0.8900000000 | 1.8824259237 |
| 0.8950000000 | 1.9123526778 |
| 0.9000000000 | 1.9440579298 |
| 0.9050000000 | 1.9777826817 |
| 0.9100000000 | 2.0138834816 |
| 0.9150000000 | 2.0525903997 |
| 0.9200000000 | 2.0943869311 |
| 0.9250000000 | 2.1396979263 |
| 0.9300000000 | 2.1889566547 |
| 0.9350000000 | 2.2429472469 |
| 0.9400000000 | 2.3026614384 |
| 0.9450000000 | 2.3692151337 |
| 0.9500000000 | 2.4441121673 |
| 0.9550000000 | 2.5298097905 |
| 0.9600000000 | 2.6290954533 |
| 0.9650000000 | 2.7463991106 |
| 0.9700000000 | 2.8893864461 |
| 0.9750000000 | 3.0684960174 |
| 0.9800000000 | 3.3051820013 |
| 0.9850000000 | 3.6414577069 |
| 0.9900000000 | 4.1844304091 |
| 0.9950000000 | 5.3592170552 |

5.10) $n=5, \rho=0$

$f_z(z), F_z(z)$



Coefficient

| | |
|--------------------|--------------|
| Mathematical Mean: | 2.00042 |
| Geometrical Mean : | 1.12384 |
| Harmonic Mean : | 0.52079 |
| Variance : | 36.48645 |
| S.D. : | 6.04040 |
| Skewed Coef. : | 358.52305 |
| Kurtosis Coef. : | 430127.59677 |
| MAD : | 1.62547 |
| Range : | 11314.23877 |
| Mid_range : | 5657.11939 |
| Median : | 1.12240 |
| Q1 : | 0.61049 |
| Q2 : | 1.12240 |
| Q3 : | 2.10724 |
| IQR : | 1.49675 |
| C.V. : | 3.01956 |

the critical value table

| | | | | |
|-------|--------------|-------------------|--------------|--------------|
| | | significant level | | |
| value | 0.995 | 0.99 | 0.975 | 0.95 |
| | 0.0422269843 | 0.0695667785 | 0.1321792184 | 0.2111600609 |

| | | | | |
|-------|--------------|-------------------|---------------|---------------|
| | | significant level | | |
| value | 0.05 | 0.025 | 0.01 | 0.005 |
| | 6.0003498760 | 8.8796147463 | 14.5914876874 | 21.0152085996 |

Note: the critical value table

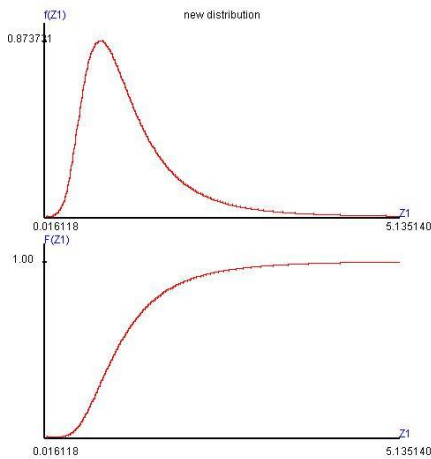
| | |
|--------------|--------------|
| 0.0050000000 | 0.0422269843 |
| 0.0100000000 | 0.0695667785 |
| 0.0150000000 | 0.0926755800 |
| 0.0200000000 | 0.1132699968 |
| 0.0250000000 | 0.1321792184 |
| 0.0300000000 | 0.1497748286 |
| 0.0350000000 | 0.1662768006 |
| 0.0400000000 | 0.1819260187 |
| 0.0450000000 | 0.1968779498 |
| 0.0500000000 | 0.2111600609 |
| 0.0550000000 | 0.2248783366 |
| 0.0600000000 | 0.2380953803 |
| 0.0650000000 | 0.2508780220 |
| 0.0700000000 | 0.2632574194 |
| 0.0750000000 | 0.2753370807 |
| 0.0800000000 | 0.2870508771 |
| 0.0850000000 | 0.2985175429 |
| 0.0900000000 | 0.3097064677 |
| 0.0950000000 | 0.3206970691 |
| 0.1000000000 | 0.3314344609 |
| 0.1050000000 | 0.3420150505 |
| 0.1100000000 | 0.3523723151 |
| 0.1150000000 | 0.3625437432 |
| 0.1200000000 | 0.3726082805 |
| 0.1250000000 | 0.3825591206 |
| 0.1300000000 | 0.3923688139 |
| 0.1350000000 | 0.4020751414 |
| 0.1400000000 | 0.4116689224 |
| 0.1450000000 | 0.4211565090 |
| 0.1500000000 | 0.4305851520 |
| 0.1550000000 | 0.4398946281 |
| 0.1600000000 | 0.4491831755 |
| 0.1650000000 | 0.4584126328 |
| 0.1700000000 | 0.4675713582 |
| 0.1750000000 | 0.4766963163 |
| 0.1800000000 | 0.4857589217 |
| 0.1850000000 | 0.4948031541 |
| 0.1900000000 | 0.5037988299 |
| 0.1950000000 | 0.5127749395 |
| 0.2000000000 | 0.5217459914 |
| 0.2050000000 | 0.5306528952 |
| 0.2100000000 | 0.5395518654 |
| 0.2150000000 | 0.5484400312 |
| 0.2200000000 | 0.5573202482 |
| 0.2250000000 | 0.5661748309 |
| 0.2300000000 | 0.5750459949 |
| 0.2350000000 | 0.5838861039 |
| 0.2400000000 | 0.5927475697 |
| 0.2450000000 | 0.6015995213 |
| 0.2500000000 | 0.6104882450 |
| 0.2550000000 | 0.6193761452 |
| 0.2600000000 | 0.6282994687 |
| 0.2650000000 | 0.6372378932 |
| 0.2700000000 | 0.6461764854 |
| 0.2750000000 | 0.6551652198 |
| 0.2800000000 | 0.6641965058 |
| 0.2850000000 | 0.6732049209 |
| 0.2900000000 | 0.6822498045 |
| 0.2950000000 | 0.6913316102 |
| 0.3000000000 | 0.7004735248 |
| 0.3050000000 | 0.7096502427 |
| 0.3100000000 | 0.7188411477 |
| 0.3150000000 | 0.7280986699 |
| 0.3200000000 | 0.7374012021 |
| 0.3250000000 | 0.7467430819 |
| 0.3300000000 | 0.7561541581 |
| 0.3350000000 | 0.7655995052 |
| 0.3400000000 | 0.7751218155 |
| 0.3450000000 | 0.7846592342 |
| 0.3500000000 | 0.7942666025 |
| 0.3550000000 | 0.8039232163 |
| 0.3600000000 | 0.8136573935 |
| 0.3650000000 | 0.8234540906 |
| 0.3700000000 | 0.8332751945 |
| 0.3750000000 | 0.8432077271 |

| | |
|--------------|--------------|
| 0.3800000000 | 0.8532083840 |
| 0.3850000000 | 0.8633104745 |
| 0.3900000000 | 0.8735008604 |
| 0.3950000000 | 0.8837133317 |
| 0.4000000000 | 0.8940348379 |
| 0.4050000000 | 0.9044278632 |
| 0.4100000000 | 0.9149081202 |
| 0.4150000000 | 0.9254990911 |
| 0.4200000000 | 0.9361732168 |
| 0.4250000000 | 0.9469268476 |
| 0.4300000000 | 0.9578321261 |
| 0.4350000000 | 0.9688022447 |
| 0.4400000000 | 0.9799084994 |
| 0.4450000000 | 0.9911074227 |
| 0.4500000000 | 1.0024413462 |
| 0.4550000000 | 1.0138702916 |
| 0.4600000000 | 1.0254302873 |
| 0.4650000000 | 1.0370670745 |
| 0.4700000000 | 1.0488802312 |
| 0.4750000000 | 1.0607837566 |
| 0.4800000000 | 1.0727998103 |
| 0.4850000000 | 1.0849893873 |
| 0.4900000000 | 1.0973213063 |
| 0.4950000000 | 1.1097802904 |
| 0.5000000000 | 1.1224007564 |
| 0.5050000000 | 1.1351491645 |
| 0.5100000000 | 1.1481015569 |
| 0.5150000000 | 1.1611522604 |
| 0.5200000000 | 1.1744220216 |
| 0.5250000000 | 1.1878612976 |
| 0.5300000000 | 1.2014801616 |
| 0.5350000000 | 1.2152029160 |
| 0.5400000000 | 1.2292167094 |
| 0.5450000000 | 1.2433406051 |
| 0.5500000000 | 1.2577119877 |
| 0.5550000000 | 1.2722758704 |
| 0.5600000000 | 1.2870621222 |
| 0.5650000000 | 1.3020620269 |
| 0.5700000000 | 1.3172718749 |
| 0.5750000000 | 1.3327247677 |
| 0.5800000000 | 1.3484281635 |
| 0.5850000000 | 1.3643240930 |
| 0.5900000000 | 1.3805711459 |
| 0.5950000000 | 1.3970285375 |
| 0.6000000000 | 1.4137930325 |
| 0.6050000000 | 1.4308356728 |
| 0.6100000000 | 1.4481274657 |
| 0.6150000000 | 1.4656574081 |
| 0.6200000000 | 1.4835569835 |
| 0.6250000000 | 1.5018030382 |
| 0.6300000000 | 1.5203674047 |
| 0.6350000000 | 1.5393089768 |
| 0.6400000000 | 1.5585424902 |
| 0.6450000000 | 1.5782389411 |
| 0.6500000000 | 1.5982409052 |
| 0.6550000000 | 1.6186290258 |
| 0.6600000000 | 1.6394469342 |
| 0.6650000000 | 1.6607618541 |
| 0.6700000000 | 1.6824755568 |
| 0.6750000000 | 1.7046776942 |
| 0.6800000000 | 1.7272989599 |
| 0.6850000000 | 1.7504252477 |
| 0.6900000000 | 1.7740438470 |
| 0.6950000000 | 1.7982068716 |
| 0.7000000000 | 1.8229691042 |
| 0.7050000000 | 1.8483091907 |
| 0.7100000000 | 1.8742419766 |
| 0.7150000000 | 1.9007644548 |
| 0.7200000000 | 1.9280615871 |
| 0.7250000000 | 1.9560053850 |
| 0.7300000000 | 1.9846195363 |
| 0.7350000000 | 2.0140965673 |
| 0.7400000000 | 2.0442976677 |
| 0.7450000000 | 2.0752997076 |
| 0.7500000000 | 2.1072381138 |

| | |
|--------------|---------------|
| 0.7550000000 | 2.1401484371 |
| 0.7600000000 | 2.1740529018 |
| 0.7650000000 | 2.2089960103 |
| 0.7700000000 | 2.2450853719 |
| 0.7750000000 | 2.2822653386 |
| 0.7800000000 | 2.3207034456 |
| 0.7850000000 | 2.3602837434 |
| 0.7900000000 | 2.4013154685 |
| 0.7950000000 | 2.4436454215 |
| 0.8000000000 | 2.4875722224 |
| 0.8050000000 | 2.5331306001 |
| 0.8100000000 | 2.5804573929 |
| 0.8150000000 | 2.6295456571 |
| 0.8200000000 | 2.6807664835 |
| 0.8250000000 | 2.7341282214 |
| 0.8300000000 | 2.7897865850 |
| 0.8350000000 | 2.8478626044 |
| 0.8400000000 | 2.9085087482 |
| 0.8450000000 | 2.9719478228 |
| 0.8500000000 | 3.0384786283 |
| 0.8550000000 | 3.1083602946 |
| 0.8600000000 | 3.1818584839 |
| 0.8650000000 | 3.2594018011 |
| 0.8700000000 | 3.3412202523 |
| 0.8750000000 | 3.4278204667 |
| 0.8800000000 | 3.5199471405 |
| 0.8850000000 | 3.6178126048 |
| 0.8900000000 | 3.7221006076 |
| 0.8950000000 | 3.8336381718 |
| 0.9000000000 | 3.9534547478 |
| 0.9050000000 | 4.0829048516 |
| 0.9100000000 | 4.2222301989 |
| 0.9150000000 | 4.3736179880 |
| 0.9200000000 | 4.5389357640 |
| 0.9250000000 | 4.7204195642 |
| 0.9300000000 | 4.9206241016 |
| 0.9350000000 | 5.1440534669 |
| 0.9400000000 | 5.3938162752 |
| 0.9450000000 | 5.6769183916 |
| 0.9500000000 | 6.0003498760 |
| 0.9550000000 | 6.3773701277 |
| 0.9600000000 | 6.8217367233 |
| 0.9650000000 | 7.3591734134 |
| 0.9700000000 | 8.0245507830 |
| 0.9750000000 | 8.8796147463 |
| 0.9800000000 | 10.0372034917 |
| 0.9850000000 | 11.7329871795 |
| 0.9900000000 | 14.5914876874 |
| 0.9950000000 | 21.0152085996 |

5.11)n=10, $\rho = 0.5$

$f_z(z), F_z(z)$



Coefficient

| | |
|--------------------|----------|
| Mathematical Mean: | 1.24971 |
| Geometrical Mean : | 1.07158 |
| Harmonic Mean : | 0.92896 |
| Variance : | 0.67364 |
| S.D. : | 0.82076 |
| Skewed Coef. : | 3.94228 |
| Kurtosis Coef. : | 57.16334 |
| MAD : | 0.54509 |
| Range : | 76.94903 |
| Mid_range : | 38.48075 |
| Median : | 1.04844 |
| Q1 : | 0.74741 |
| Q2 : | 1.04844 |
| Q3 : | 1.50330 |
| IQR : | 0.75589 |
| C.V. : | 0.65676 |

the critical value table

| | | | | |
|-------|-------------------|--------------|--------------|--------------|
| | significant level | | | |
| value | 0.995 | 0.99 | 0.975 | 0.95 |
| | 0.2700047315 | 0.3176708504 | 0.3922182608 | 0.4626895004 |

| | | | | |
|-------|-------------------|--------------|--------------|--------------|
| | significant level | | | |
| value | 0.05 | 0.025 | 0.01 | 0.005 |
| | 2.6859577417 | 3.3082931944 | 4.2768730645 | 5.1450220176 |

Note: the critical value table

| | |
|--------------|--------------|
| 0.0050000000 | 0.2700047315 |
| 0.0100000000 | 0.3176708504 |
| 0.0150000000 | 0.3486967455 |
| 0.0200000000 | 0.3724861845 |
| 0.0250000000 | 0.3922182608 |
| 0.0300000000 | 0.4092031880 |
| 0.0350000000 | 0.4243408501 |
| 0.0400000000 | 0.4381626856 |
| 0.0450000000 | 0.4508847411 |
| 0.0500000000 | 0.4626895004 |
| 0.0550000000 | 0.4738375685 |
| 0.0600000000 | 0.4843463981 |
| 0.0650000000 | 0.4943740968 |
| 0.0700000000 | 0.5039743179 |
| 0.0750000000 | 0.5132007523 |
| 0.0800000000 | 0.5220794533 |
| 0.0850000000 | 0.5306241361 |
| 0.0900000000 | 0.5389856902 |
| 0.0950000000 | 0.5471121377 |
| 0.1000000000 | 0.5549880768 |
| 0.1050000000 | 0.5627100228 |
| 0.1100000000 | 0.5702496163 |
| 0.1150000000 | 0.5776113455 |
| 0.1200000000 | 0.5848455307 |
| 0.1250000000 | 0.5919642111 |
| 0.1300000000 | 0.5989729579 |
| 0.1350000000 | 0.6058581849 |
| 0.1400000000 | 0.6126852472 |
| 0.1450000000 | 0.6193816945 |
| 0.1500000000 | 0.6259934592 |
| 0.1550000000 | 0.6325335020 |

| | |
|--------------|--------------|
| 0.1600000000 | 0.6389737214 |
| 0.1650000000 | 0.6453427348 |
| 0.1700000000 | 0.6516816238 |
| 0.1750000000 | 0.6579494604 |
| 0.1800000000 | 0.6641728275 |
| 0.1850000000 | 0.6703354382 |
| 0.1900000000 | 0.6764460681 |
| 0.1950000000 | 0.6825256805 |
| 0.2000000000 | 0.6885545478 |
| 0.2050000000 | 0.6945565715 |
| 0.2100000000 | 0.7005226680 |
| 0.2150000000 | 0.7064777164 |
| 0.2200000000 | 0.7123910061 |
| 0.2250000000 | 0.7182813451 |
| 0.2300000000 | 0.7241371500 |
| 0.2350000000 | 0.7299784260 |
| 0.2400000000 | 0.7357924427 |
| 0.2450000000 | 0.7416177386 |
| 0.2500000000 | 0.7474051583 |
| 0.2550000000 | 0.7531916062 |
| 0.2600000000 | 0.7589573115 |
| 0.2650000000 | 0.7647216682 |
| 0.2700000000 | 0.7704824939 |
| 0.2750000000 | 0.7762270278 |
| 0.2800000000 | 0.7819717084 |
| 0.2850000000 | 0.7876985361 |
| 0.2900000000 | 0.7934291654 |
| 0.2950000000 | 0.7991542948 |
| 0.3000000000 | 0.8048849351 |
| 0.3050000000 | 0.8105939282 |
| 0.3100000000 | 0.8163354398 |
| 0.3150000000 | 0.8220726523 |
| 0.3200000000 | 0.8278287379 |
| 0.3250000000 | 0.8335623949 |
| 0.3300000000 | 0.8393234289 |
| 0.3350000000 | 0.8450936915 |
| 0.3400000000 | 0.8508781279 |
| 0.3450000000 | 0.8566687880 |
| 0.3500000000 | 0.8624938175 |
| 0.3550000000 | 0.8683201282 |
| 0.3600000000 | 0.8741256893 |
| 0.3650000000 | 0.8799849709 |
| 0.3700000000 | 0.8858656070 |
| 0.3750000000 | 0.8917570612 |
| 0.3800000000 | 0.8976708286 |
| 0.3850000000 | 0.9035884807 |
| 0.3900000000 | 0.9095451240 |
| 0.3950000000 | 0.9154905031 |
| 0.4000000000 | 0.9214807307 |
| 0.4050000000 | 0.9275397668 |
| 0.4100000000 | 0.9336161663 |
| 0.4150000000 | 0.9396875207 |
| 0.4200000000 | 0.9458025574 |
| 0.4250000000 | 0.9519027543 |
| 0.4300000000 | 0.9580692106 |
| 0.4350000000 | 0.9642609281 |
| 0.4400000000 | 0.9704890188 |
| 0.4450000000 | 0.9767657299 |
| 0.4500000000 | 0.9830945123 |
| 0.4550000000 | 0.9894334273 |
| 0.4600000000 | 0.9958331471 |
| 0.4650000000 | 1.0022521240 |
| 0.4700000000 | 1.0087169397 |
| 0.4750000000 | 1.0152186401 |
| 0.4800000000 | 1.0217984637 |
| 0.4850000000 | 1.0283910977 |
| 0.4900000000 | 1.0350500048 |
| 0.4950000000 | 1.0417102532 |
| 0.5000000000 | 1.0484434704 |
| 0.5050000000 | 1.0552552464 |
| 0.5100000000 | 1.0621060726 |
| 0.5150000000 | 1.0689882503 |
| 0.5200000000 | 1.0759387942 |
| 0.5250000000 | 1.0829744545 |
| 0.5300000000 | 1.0900707678 |

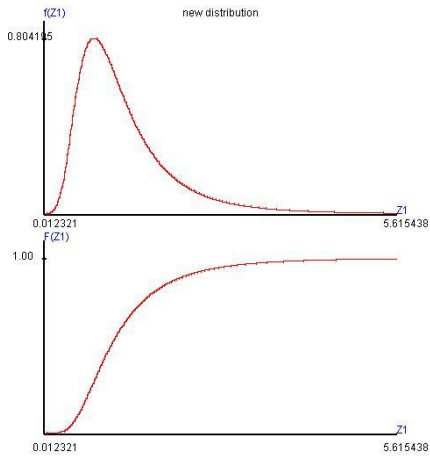
| | |
|--------------|--------------|
| 0.5350000000 | 1.0971979727 |
| 0.5400000000 | 1.1043736774 |
| 0.5450000000 | 1.1116460888 |
| 0.5500000000 | 1.1189894950 |
| 0.5550000000 | 1.1264251073 |
| 0.5600000000 | 1.1339029832 |
| 0.5650000000 | 1.1414494017 |
| 0.5700000000 | 1.1490390730 |
| 0.5750000000 | 1.1567797265 |
| 0.5800000000 | 1.1645378864 |
| 0.5850000000 | 1.1723931582 |
| 0.5900000000 | 1.1803374862 |
| 0.5950000000 | 1.1883997317 |
| 0.6000000000 | 1.1965454219 |
| 0.6050000000 | 1.2047447751 |
| 0.6100000000 | 1.2130818003 |
| 0.6150000000 | 1.2215179616 |
| 0.6200000000 | 1.2300565438 |
| 0.6250000000 | 1.2386826558 |
| 0.6300000000 | 1.2474468326 |
| 0.6350000000 | 1.2563227396 |
| 0.6400000000 | 1.2653032392 |
| 0.6450000000 | 1.2744012410 |
| 0.6500000000 | 1.2836638589 |
| 0.6550000000 | 1.2929832146 |
| 0.6600000000 | 1.3024820497 |
| 0.6650000000 | 1.3121471898 |
| 0.6700000000 | 1.3219404099 |
| 0.6750000000 | 1.3318790138 |
| 0.6800000000 | 1.3419486488 |
| 0.6850000000 | 1.3521928893 |
| 0.6900000000 | 1.3626433789 |
| 0.6950000000 | 1.3732399650 |
| 0.7000000000 | 1.3840512897 |
| 0.7050000000 | 1.3949831153 |
| 0.7100000000 | 1.4061864147 |
| 0.7150000000 | 1.4175663472 |
| 0.7200000000 | 1.4291417680 |
| 0.7250000000 | 1.4409188759 |
| 0.7300000000 | 1.4529336784 |
| 0.7350000000 | 1.4651663199 |
| 0.7400000000 | 1.4776334113 |
| 0.7450000000 | 1.4903335071 |
| 0.7500000000 | 1.5032954162 |
| 0.7550000000 | 1.5165482781 |
| 0.7600000000 | 1.5301734730 |
| 0.7650000000 | 1.5440778732 |
| 0.7700000000 | 1.5583579300 |
| 0.7750000000 | 1.5729777702 |
| 0.7800000000 | 1.5878825658 |
| 0.7850000000 | 1.6031553412 |
| 0.7900000000 | 1.6189234702 |
| 0.7950000000 | 1.6350610644 |
| 0.8000000000 | 1.6516834992 |
| 0.8050000000 | 1.6686604016 |
| 0.8100000000 | 1.6862395952 |
| 0.8150000000 | 1.7043384382 |
| 0.8200000000 | 1.7229599385 |
| 0.8250000000 | 1.7421888599 |
| 0.8300000000 | 1.7619983124 |
| 0.8350000000 | 1.7825115419 |
| 0.8400000000 | 1.8037359144 |
| 0.8450000000 | 1.8256974338 |
| 0.8500000000 | 1.8483749613 |
| 0.8550000000 | 1.8720643980 |
| 0.8600000000 | 1.8966244711 |
| 0.8650000000 | 1.9222253612 |
| 0.8700000000 | 1.9490634428 |
| 0.8750000000 | 1.9770608838 |
| 0.8800000000 | 2.0063615529 |
| 0.8850000000 | 2.0371128766 |
| 0.8900000000 | 2.0694797045 |
| 0.8950000000 | 2.1034156109 |
| 0.9000000000 | 2.1393731364 |
| 0.9050000000 | 2.1775420814 |

| | |
|--------------|--------------|
| 0.9100000000 | 2.2182076577 |
| 0.9150000000 | 2.2615178740 |
| 0.9200000000 | 2.3080470720 |
| 0.9250000000 | 2.3580982260 |
| 0.9300000000 | 2.4122302696 |
| 0.9350000000 | 2.4714371547 |
| 0.9400000000 | 2.5359331448 |
| 0.9450000000 | 2.6066688828 |
| 0.9500000000 | 2.6859577417 |
| 0.9550000000 | 2.7750775850 |
| 0.9600000000 | 2.8771747799 |
| 0.9650000000 | 2.9956984826 |
| 0.9700000000 | 3.1363566763 |
| 0.9750000000 | 3.3082931944 |
| 0.9800000000 | 3.5280731435 |
| 0.9850000000 | 3.8254875801 |
| 0.9900000000 | 4.2768730645 |
| 0.9950000000 | 5.1450220176 |

5.12) $n=10, \rho=0$

$f_z(z), F_z(z)$

Coefficient



| | |
|--------------------|-----------|
| Mathematical Mean: | 1.28563 |
| Geometrical Mean : | 1.07597 |
| Harmonic Mean : | 0.90752 |
| Variance : | 0.82647 |
| S.D. : | 0.90910 |
| Skewed Coef. : | 4.00723 |
| Kurtosis Coef. : | 57.35912 |
| MAD : | 0.60115 |
| Range : | 101.50414 |
| Mid_range : | 50.75357 |
| Median : | 1.05872 |
| Q1 : | 0.73110 |
| Q2 : | 1.05872 |
| Q3 : | 1.56014 |
| IQR : | 0.82904 |
| C.V. : | 0.70713 |

the critical value table

| | | | | | |
|-------|--------------|-------------------|--------------|--------------|--|
| | | significant level | | | |
| value | 0.995 | 0.99 | 0.975 | 0.95 | |
| | 0.2308696014 | 0.2779976991 | 0.3538628974 | 0.4274073215 | |

| | | | | | |
|-------|--------------|-------------------|--------------|--------------|--|
| | | significant level | | | |
| value | 0.05 | 0.025 | 0.01 | 0.005 | |
| | 2.8746894118 | 3.5700794743 | 4.6564199836 | 5.6262547397 | |

Note: the critical value table

| | |
|--------------|--------------|
| 0.0050000000 | 0.2308696014 |
| 0.0100000000 | 0.2779976991 |
| 0.0150000000 | 0.3092602311 |

| | |
|--------------|--------------|
| 0.0200000000 | 0.3335432532 |
| 0.0250000000 | 0.3538628974 |
| 0.0300000000 | 0.3715722215 |
| 0.0350000000 | 0.3873322943 |
| 0.0400000000 | 0.4017491106 |
| 0.0450000000 | 0.4150135103 |
| 0.0500000000 | 0.4274073215 |
| 0.0550000000 | 0.4391039978 |
| 0.0600000000 | 0.4501553443 |
| 0.0650000000 | 0.4607388045 |
| 0.0700000000 | 0.4708369363 |
| 0.0750000000 | 0.4805696184 |
| 0.0800000000 | 0.4899798605 |
| 0.0850000000 | 0.4990867928 |
| 0.0900000000 | 0.5079201779 |
| 0.0950000000 | 0.5165246201 |
| 0.1000000000 | 0.5248913942 |
| 0.1050000000 | 0.5330756971 |
| 0.1100000000 | 0.5410909192 |
| 0.1150000000 | 0.5489308224 |
| 0.1200000000 | 0.5566287422 |
| 0.1250000000 | 0.5641989348 |
| 0.1300000000 | 0.5716611718 |
| 0.1350000000 | 0.5790065719 |
| 0.1400000000 | 0.5862552881 |
| 0.1450000000 | 0.5934109030 |
| 0.1500000000 | 0.6004839244 |
| 0.1550000000 | 0.6074553654 |
| 0.1600000000 | 0.6143390707 |
| 0.1650000000 | 0.6211679709 |
| 0.1700000000 | 0.6279629467 |
| 0.1750000000 | 0.6346943120 |
| 0.1800000000 | 0.6413598558 |
| 0.1850000000 | 0.6479647973 |
| 0.1900000000 | 0.6545518544 |
| 0.1950000000 | 0.6611026648 |
| 0.2000000000 | 0.6675979641 |
| 0.2050000000 | 0.6740797985 |
| 0.2100000000 | 0.6805108253 |
| 0.2150000000 | 0.6869038026 |
| 0.2200000000 | 0.6932861555 |
| 0.2250000000 | 0.6996285205 |
| 0.2300000000 | 0.7059543104 |
| 0.2350000000 | 0.7122660597 |
| 0.2400000000 | 0.7185388544 |
| 0.2450000000 | 0.7248403958 |
| 0.2500000000 | 0.7310956928 |
| 0.2550000000 | 0.7372893612 |
| 0.2600000000 | 0.7435190191 |
| 0.2650000000 | 0.7497397095 |
| 0.2700000000 | 0.7559590482 |
| 0.2750000000 | 0.7621546286 |
| 0.2800000000 | 0.7683650670 |
| 0.2850000000 | 0.7746050764 |
| 0.2900000000 | 0.7808312974 |
| 0.2950000000 | 0.7870434705 |
| 0.3000000000 | 0.7932847934 |
| 0.3050000000 | 0.7994962492 |
| 0.3100000000 | 0.8057127941 |
| 0.3150000000 | 0.8119206794 |
| 0.3200000000 | 0.8181289612 |
| 0.3250000000 | 0.8243806210 |
| 0.3300000000 | 0.8306503242 |
| 0.3350000000 | 0.8369132418 |
| 0.3400000000 | 0.8432063279 |
| 0.3450000000 | 0.8495154553 |
| 0.3500000000 | 0.8558479317 |
| 0.3550000000 | 0.8621536176 |
| 0.3600000000 | 0.8684972444 |
| 0.3650000000 | 0.8748612606 |
| 0.3700000000 | 0.8812481195 |
| 0.3750000000 | 0.8876625199 |
| 0.3800000000 | 0.8940812922 |
| 0.3850000000 | 0.9005227373 |
| 0.3900000000 | 0.9069740866 |

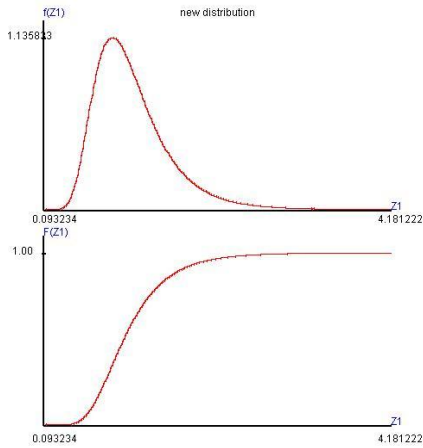
| | |
|--------------|--------------|
| 0.3950000000 | 0.9134776546 |
| 0.4000000000 | 0.9200239942 |
| 0.4050000000 | 0.9265645246 |
| 0.4100000000 | 0.9331698927 |
| 0.4150000000 | 0.9397960600 |
| 0.4200000000 | 0.9464565073 |
| 0.4250000000 | 0.9531588356 |
| 0.4300000000 | 0.9598999603 |
| 0.4350000000 | 0.9666613672 |
| 0.4400000000 | 0.9734694683 |
| 0.4450000000 | 0.9803042395 |
| 0.4500000000 | 0.9872058762 |
| 0.4550000000 | 0.9941248853 |
| 0.4600000000 | 1.0011439417 |
| 0.4650000000 | 1.0082008091 |
| 0.4700000000 | 1.0152722836 |
| 0.4750000000 | 1.0223972978 |
| 0.4800000000 | 1.0295519803 |
| 0.4850000000 | 1.0367611054 |
| 0.4900000000 | 1.0440342592 |
| 0.4950000000 | 1.0513438664 |
| 0.5000000000 | 1.0587225213 |
| 0.5050000000 | 1.0662083743 |
| 0.5100000000 | 1.0737102952 |
| 0.5150000000 | 1.0812712366 |
| 0.5200000000 | 1.0888928641 |
| 0.5250000000 | 1.0965981555 |
| 0.5300000000 | 1.1043569090 |
| 0.5350000000 | 1.1122149480 |
| 0.5400000000 | 1.1201206123 |
| 0.5450000000 | 1.1280961487 |
| 0.5500000000 | 1.1361336294 |
| 0.5550000000 | 1.1442646661 |
| 0.5600000000 | 1.1524807973 |
| 0.5650000000 | 1.1607891198 |
| 0.5700000000 | 1.1691830301 |
| 0.5750000000 | 1.1776859334 |
| 0.5800000000 | 1.1862075190 |
| 0.5850000000 | 1.1948563054 |
| 0.5900000000 | 1.2036145364 |
| 0.5950000000 | 1.2124663981 |
| 0.6000000000 | 1.2214374230 |
| 0.6050000000 | 1.2304987145 |
| 0.6100000000 | 1.2396845851 |
| 0.6150000000 | 1.2489640887 |
| 0.6200000000 | 1.2583667858 |
| 0.6250000000 | 1.2679041520 |
| 0.6300000000 | 1.2775445715 |
| 0.6350000000 | 1.2872748452 |
| 0.6400000000 | 1.2971652741 |
| 0.6450000000 | 1.3072312074 |
| 0.6500000000 | 1.3174026069 |
| 0.6550000000 | 1.3277497514 |
| 0.6600000000 | 1.3381826924 |
| 0.6650000000 | 1.3487626826 |
| 0.6700000000 | 1.3595941718 |
| 0.6750000000 | 1.3705249585 |
| 0.6800000000 | 1.3816355383 |
| 0.6850000000 | 1.3929559004 |
| 0.6900000000 | 1.4044883785 |
| 0.6950000000 | 1.4161928754 |
| 0.7000000000 | 1.4281298205 |
| 0.7050000000 | 1.4402168099 |
| 0.7100000000 | 1.4525345213 |
| 0.7150000000 | 1.4650733258 |
| 0.7200000000 | 1.4778995650 |
| 0.7250000000 | 1.4909279452 |
| 0.7300000000 | 1.5042196711 |
| 0.7350000000 | 1.5177377438 |
| 0.7400000000 | 1.5315811336 |
| 0.7450000000 | 1.5457054878 |
| 0.7500000000 | 1.5601378687 |
| 0.7550000000 | 1.5748684326 |
| 0.7600000000 | 1.5899545523 |
| 0.7650000000 | 1.6053639802 |

| | |
|--------------|--------------|
| 0.7700000000 | 1.6211247739 |
| 0.7750000000 | 1.6372997809 |
| 0.7800000000 | 1.6538627960 |
| 0.7850000000 | 1.6707640113 |
| 0.7900000000 | 1.6882243478 |
| 0.7950000000 | 1.7060642236 |
| 0.8000000000 | 1.7244037605 |
| 0.8050000000 | 1.7433042085 |
| 0.8100000000 | 1.7627812627 |
| 0.8150000000 | 1.7828080892 |
| 0.8200000000 | 1.8034045095 |
| 0.8250000000 | 1.8246213749 |
| 0.8300000000 | 1.8467295860 |
| 0.8350000000 | 1.8696234303 |
| 0.8400000000 | 1.8931809934 |
| 0.8450000000 | 1.9175675276 |
| 0.8500000000 | 1.9429060574 |
| 0.8550000000 | 1.9691068425 |
| 0.8600000000 | 1.9965483736 |
| 0.8650000000 | 2.0250623232 |
| 0.8700000000 | 2.0547242061 |
| 0.8750000000 | 2.0857927745 |
| 0.8800000000 | 2.1183578190 |
| 0.8850000000 | 2.1526607382 |
| 0.8900000000 | 2.1886496461 |
| 0.8950000000 | 2.2264666037 |
| 0.9000000000 | 2.2665919976 |
| 0.9050000000 | 2.3090055854 |
| 0.9100000000 | 2.3541568897 |
| 0.9150000000 | 2.4023237729 |
| 0.9200000000 | 2.4540227942 |
| 0.9250000000 | 2.5095966737 |
| 0.9300000000 | 2.5700120550 |
| 0.9350000000 | 2.6355342656 |
| 0.9400000000 | 2.7071789376 |
| 0.9450000000 | 2.7863274323 |
| 0.9500000000 | 2.8746894118 |
| 0.9550000000 | 2.9742202704 |
| 0.9600000000 | 3.0877914855 |
| 0.9650000000 | 3.2204096542 |
| 0.9700000000 | 3.3775668124 |
| 0.9750000000 | 3.5700794743 |
| 0.9800000000 | 3.8160623389 |
| 0.9850000000 | 4.1499938165 |
| 0.9900000000 | 4.6564199836 |
| 0.9950000000 | 5.6262547397 |

5.13) $n=20, \rho=0$

$f_z(z), F_z(z)$

Coefficient



| | |
|--------------------|----------|
| Mathematical Mean: | 1.11771 |
| Geometrical Mean : | 1.03834 |
| Harmonic Mean : | 0.96735 |
| Variance : | 0.20954 |
| S.D. : | 0.45775 |
| Skewed Coef. : | 1.65660 |
| Kurtosis Coef. : | 8.97357 |
| MAD : | 0.34010 |
| Range : | 12.06204 |
| Mid_range : | 6.11636 |
| Median : | 1.02798 |
| Q1 : | 0.80255 |
| Q2 : | 1.02798 |
| Q3 : | 1.32920 |
| IQR : | 0.52665 |
| C.V. : | 0.40954 |

the critical value table

| | | | | | |
|-------|--------------|-------------------|--------------|--------------|--|
| | | significant level | | | |
| value | 0.995 | 0.99 | 0.975 | 0.95 | |
| | 0.4037460085 | 0.4427791683 | 0.5060689771 | 0.5667519387 | |
| | | significant level | | | |
| value | 0.05 | 0.025 | 0.01 | 0.005 | |
| | 1.9690585116 | 2.2528585803 | 2.6502133962 | 2.9696185343 | |

Note: the critical value table

| | |
|--------------|--------------|
| 0.0050000000 | 0.4037460085 |
| 0.0100000000 | 0.4427791683 |
| 0.0150000000 | 0.4688371426 |

| | |
|--------------|--------------|
| 0.0200000000 | 0.4891054528 |
| 0.0250000000 | 0.5060689771 |
| 0.0300000000 | 0.5206968162 |
| 0.0350000000 | 0.5337116869 |
| 0.0400000000 | 0.5455925333 |
| 0.0450000000 | 0.5565764546 |
| 0.0500000000 | 0.5667519387 |
| 0.0550000000 | 0.5762793138 |
| 0.0600000000 | 0.5852575964 |
| 0.0650000000 | 0.5938813097 |
| 0.0700000000 | 0.6020954986 |
| 0.0750000000 | 0.6099935155 |
| 0.0800000000 | 0.6175880357 |
| 0.0850000000 | 0.6248890151 |
| 0.0900000000 | 0.6319398058 |
| 0.0950000000 | 0.6387827641 |
| 0.1000000000 | 0.6454467823 |
| 0.1050000000 | 0.6519339398 |
| 0.1100000000 | 0.6582723890 |
| 0.1150000000 | 0.6644225704 |
| 0.1200000000 | 0.6704731245 |
| 0.1250000000 | 0.6763974991 |
| 0.1300000000 | 0.6822346711 |
| 0.1350000000 | 0.6879872873 |
| 0.1400000000 | 0.6936104873 |
| 0.1450000000 | 0.6991476027 |
| 0.1500000000 | 0.7046024668 |
| 0.1550000000 | 0.7099582518 |
| 0.1600000000 | 0.7152441748 |
| 0.1650000000 | 0.7204638712 |
| 0.1700000000 | 0.7256388155 |
| 0.1750000000 | 0.7307648422 |
| 0.1800000000 | 0.7358122870 |
| 0.1850000000 | 0.7408489526 |
| 0.1900000000 | 0.7458232523 |
| 0.1950000000 | 0.7507521603 |
| 0.2000000000 | 0.7555957594 |
| 0.2050000000 | 0.7604345488 |
| 0.2100000000 | 0.7652404131 |
| 0.2150000000 | 0.7700069348 |
| 0.2200000000 | 0.7747616924 |
| 0.2250000000 | 0.7794786203 |
| 0.2300000000 | 0.7841300198 |
| 0.2350000000 | 0.7887610724 |
| 0.2400000000 | 0.7933806402 |
| 0.2450000000 | 0.7979752079 |
| 0.2500000000 | 0.8025546069 |
| 0.2550000000 | 0.8071234217 |
| 0.2600000000 | 0.8116681558 |
| 0.2650000000 | 0.8161992513 |
| 0.2700000000 | 0.8207118462 |
| 0.2750000000 | 0.8252250211 |
| 0.2800000000 | 0.8296951216 |
| 0.2850000000 | 0.8341602646 |
| 0.2900000000 | 0.8385884171 |
| 0.2950000000 | 0.8430468756 |
| 0.3000000000 | 0.8474756850 |
| 0.3050000000 | 0.8518929305 |
| 0.3100000000 | 0.8563294445 |
| 0.3150000000 | 0.8607620087 |
| 0.3200000000 | 0.8651830938 |
| 0.3250000000 | 0.8696003168 |
| 0.3300000000 | 0.8739835503 |
| 0.3350000000 | 0.8783999290 |
| 0.3400000000 | 0.8828167099 |
| 0.3450000000 | 0.8872091453 |
| 0.3500000000 | 0.8915879450 |
| 0.3550000000 | 0.8959716932 |
| 0.3600000000 | 0.9003837894 |
| 0.3650000000 | 0.9047996111 |
| 0.3700000000 | 0.9092299707 |
| 0.3750000000 | 0.9136405622 |
| 0.3800000000 | 0.9180497042 |
| 0.3850000000 | 0.9224997353 |
| 0.3900000000 | 0.9269399800 |

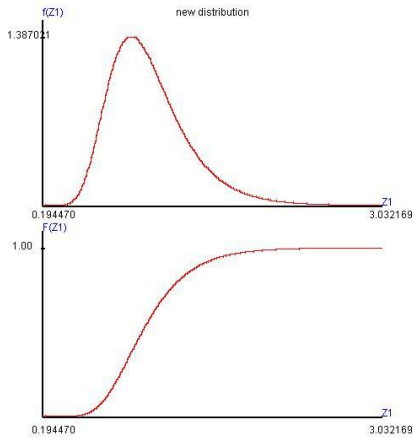
| | |
|--------------|--------------|
| 0.3950000000 | 0.9313596144 |
| 0.4000000000 | 0.9358205752 |
| 0.4050000000 | 0.9402947238 |
| 0.4100000000 | 0.9447727413 |
| 0.4150000000 | 0.9492539861 |
| 0.4200000000 | 0.9537722020 |
| 0.4250000000 | 0.9582630349 |
| 0.4300000000 | 0.9627877495 |
| 0.4350000000 | 0.9673064654 |
| 0.4400000000 | 0.9718660280 |
| 0.4450000000 | 0.9764282226 |
| 0.4500000000 | 0.9810061516 |
| 0.4550000000 | 0.9856185062 |
| 0.4600000000 | 0.9902629179 |
| 0.4650000000 | 0.9948717888 |
| 0.4700000000 | 0.9995385577 |
| 0.4750000000 | 1.0042205940 |
| 0.4800000000 | 1.0089216037 |
| 0.4850000000 | 1.0136452096 |
| 0.4900000000 | 1.0183860640 |
| 0.4950000000 | 1.0231831038 |
| 0.5000000000 | 1.0279816580 |
| 0.5050000000 | 1.0328074994 |
| 0.5100000000 | 1.0376714180 |
| 0.5150000000 | 1.0425738699 |
| 0.5200000000 | 1.0474838741 |
| 0.5250000000 | 1.0524320416 |
| 0.5300000000 | 1.0574153041 |
| 0.5350000000 | 1.0623979064 |
| 0.5400000000 | 1.0674191503 |
| 0.5450000000 | 1.0724747466 |
| 0.5500000000 | 1.0775704536 |
| 0.5550000000 | 1.0827020761 |
| 0.5600000000 | 1.0878720164 |
| 0.5650000000 | 1.0930818549 |
| 0.5700000000 | 1.0983665068 |
| 0.5750000000 | 1.1036465180 |
| 0.5800000000 | 1.1089647670 |
| 0.5850000000 | 1.1143375643 |
| 0.5900000000 | 1.1197755288 |
| 0.5950000000 | 1.1252649695 |
| 0.6000000000 | 1.1307756663 |
| 0.6050000000 | 1.1363462632 |
| 0.6100000000 | 1.1419998992 |
| 0.6150000000 | 1.1476878375 |
| 0.6200000000 | 1.1534237614 |
| 0.6250000000 | 1.1592041530 |
| 0.6300000000 | 1.1650429333 |
| 0.6350000000 | 1.1709352549 |
| 0.6400000000 | 1.1768983644 |
| 0.6450000000 | 1.1828918038 |
| 0.6500000000 | 1.1890021017 |
| 0.6550000000 | 1.1951584072 |
| 0.6600000000 | 1.2013860511 |
| 0.6650000000 | 1.2076928871 |
| 0.6700000000 | 1.2140773178 |
| 0.6750000000 | 1.2205224939 |
| 0.6800000000 | 1.2270258322 |
| 0.6850000000 | 1.2336546795 |
| 0.6900000000 | 1.2403460338 |
| 0.6950000000 | 1.2471578499 |
| 0.7000000000 | 1.2540896060 |
| 0.7050000000 | 1.2610478074 |
| 0.7100000000 | 1.2681558904 |
| 0.7150000000 | 1.2753564887 |
| 0.7200000000 | 1.2826975846 |
| 0.7250000000 | 1.2901161758 |
| 0.7300000000 | 1.2976771573 |
| 0.7350000000 | 1.3053508083 |
| 0.7400000000 | 1.3131395522 |
| 0.7450000000 | 1.3211025821 |
| 0.7500000000 | 1.3292027150 |
| 0.7550000000 | 1.3374280962 |
| 0.7600000000 | 1.3458088776 |
| 0.7650000000 | 1.3543187695 |

| | |
|--------------|--------------|
| 0.7700000000 | 1.3630330497 |
| 0.7750000000 | 1.3719130190 |
| 0.7800000000 | 1.3809322749 |
| 0.7850000000 | 1.3901839319 |
| 0.7900000000 | 1.3996630064 |
| 0.7950000000 | 1.4093323977 |
| 0.8000000000 | 1.4192088604 |
| 0.8050000000 | 1.4293528712 |
| 0.8100000000 | 1.4397127274 |
| 0.8150000000 | 1.4503248062 |
| 0.8200000000 | 1.4611810165 |
| 0.8250000000 | 1.4723981774 |
| 0.8300000000 | 1.4838662052 |
| 0.8350000000 | 1.4957058646 |
| 0.8400000000 | 1.5079004190 |
| 0.8450000000 | 1.5205125697 |
| 0.8500000000 | 1.5335520872 |
| 0.8550000000 | 1.5469068627 |
| 0.8600000000 | 1.5607151430 |
| 0.8650000000 | 1.5750137312 |
| 0.8700000000 | 1.5898400601 |
| 0.8750000000 | 1.6053302894 |
| 0.8800000000 | 1.6213780434 |
| 0.8850000000 | 1.6381893167 |
| 0.8900000000 | 1.6556237910 |
| 0.8950000000 | 1.6739827899 |
| 0.9000000000 | 1.6933317866 |
| 0.9050000000 | 1.7135028957 |
| 0.9100000000 | 1.7347885660 |
| 0.9150000000 | 1.7574066343 |
| 0.9200000000 | 1.7814768797 |
| 0.9250000000 | 1.8071265377 |
| 0.9300000000 | 1.8345816933 |
| 0.9350000000 | 1.8640602613 |
| 0.9400000000 | 1.8959741133 |
| 0.9450000000 | 1.9308350732 |
| 0.9500000000 | 1.9690585116 |
| 0.9550000000 | 2.0114791858 |
| 0.9600000000 | 2.0594851974 |
| 0.9650000000 | 2.1141862232 |
| 0.9700000000 | 2.1774640785 |
| 0.9750000000 | 2.2528585803 |
| 0.9800000000 | 2.3474344983 |
| 0.9850000000 | 2.4706483037 |
| 0.9900000000 | 2.6502133962 |
| 0.9950000000 | 2.9696185343 |

5.14) $n=30, \rho=0$

$f_z(z), F_z(z)$

Coefficient



| | |
|--------------------|---------|
| Mathematical Mean: | 1.07407 |
| Geometrical Mean : | 1.02540 |
| Harmonic Mean : | 0.98017 |
| Variance : | 0.11588 |
| S.D. : | 0.34042 |
| Skewed Coef. : | 1.20383 |
| Kurtosis Coef. : | 5.93969 |
| MAD : | 0.26001 |
| Range : | 6.34480 |
| Mid_range : | 3.36139 |
| Median : | 1.01833 |
| Q1 : | 0.83473 |
| Q2 : | 1.01833 |
| Q3 : | 1.25052 |
| IQR : | 0.41579 |
| C.V. : | 0.31694 |

the critical value table

| | | | | | |
|-------|--------------|-------------------|--------------|--------------|--|
| | | significant level | | | |
| value | 0.995 | 0.99 | 0.975 | 0.95 | |
| | 0.4840938909 | 0.5199769360 | 0.5772986635 | 0.6314921693 | |

| | | | | | |
|-------|--------------|-------------------|--------------|--------------|--|
| | | significant level | | | |
| value | 0.05 | 0.025 | 0.01 | 0.005 | |
| | 1.7045667629 | 1.8932240132 | 2.1443133085 | 2.3399907717 | |

Note: the critical value table

| | |
|--------------|--------------|
| 0.0050000000 | 0.4840938909 |
| 0.0100000000 | 0.5199769360 |
| 0.0150000000 | 0.5437777769 |

| | |
|--------------|--------------|
| 0.0200000000 | 0.5620078261 |
| 0.0250000000 | 0.5772986635 |
| 0.0300000000 | 0.5904655584 |
| 0.0350000000 | 0.6021694867 |
| 0.0400000000 | 0.6127585063 |
| 0.0450000000 | 0.6224923861 |
| 0.0500000000 | 0.6314921693 |
| 0.0550000000 | 0.6399084267 |
| 0.0600000000 | 0.6478690918 |
| 0.0650000000 | 0.6554560687 |
| 0.0700000000 | 0.6626551367 |
| 0.0750000000 | 0.6695602101 |
| 0.0800000000 | 0.6761687094 |
| 0.0850000000 | 0.6825877563 |
| 0.0900000000 | 0.6887516489 |
| 0.0950000000 | 0.6947725792 |
| 0.1000000000 | 0.7006056918 |
| 0.1050000000 | 0.7062430954 |
| 0.1100000000 | 0.7117610613 |
| 0.1150000000 | 0.7171279179 |
| 0.1200000000 | 0.7223921144 |
| 0.1250000000 | 0.7275293241 |
| 0.1300000000 | 0.7325656377 |
| 0.1350000000 | 0.7374631118 |
| 0.1400000000 | 0.7422657744 |
| 0.1450000000 | 0.7470106003 |
| 0.1500000000 | 0.7516912848 |
| 0.1550000000 | 0.7562715744 |
| 0.1600000000 | 0.7608064801 |
| 0.1650000000 | 0.7652850005 |
| 0.1700000000 | 0.7696865425 |
| 0.1750000000 | 0.7740171799 |
| 0.1800000000 | 0.7783611949 |
| 0.1850000000 | 0.7826244744 |
| 0.1900000000 | 0.7868480855 |
| 0.1950000000 | 0.7910104574 |
| 0.2000000000 | 0.7951742433 |
| 0.2050000000 | 0.7992728977 |
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