

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

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

$$X_{11}, \dots, X_{1n} \stackrel{id}{\sim} \text{Shifted_exp_onential}(\lambda_1 = 1, c_1 = -1),$$

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

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

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

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

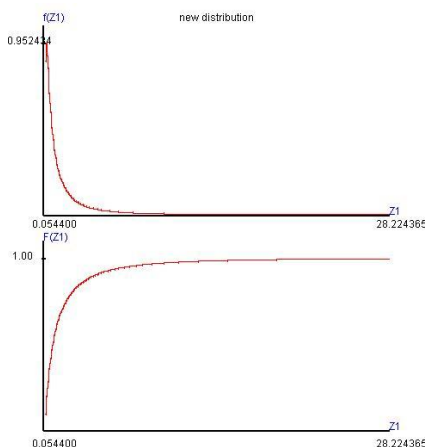
$$i = 1, \dots, n,$$

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

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

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

$f_Z(z), F_Z(z)$



Coefficient

Mathematical Mean:	1.96812
Geometrical Mean :	0.70991
Harmonic Mean :	0.23412
Variance :	80.72428
S.D. :	8.98467
Skewed Coef. :	577.68586
Kurtosis Coef. :	951169.98882
MAD :	2.05748
Range :	20032.88407
Mid_range :	10016.44205
Median :	0.72543
Q1 :	0.28241
Q2 :	0.72543
Q3 :	1.82518
IQR :	1.54277
C.V. :	4.56510

the critical value table

		significant level		
value	0.995	0.99	0.975	0.95
	0.0143333653	0.0220830294	0.0405541317	0.0668468477

		significant level		
value	0.05	0.025	0.01	0.005
	6.9922980920	11.0229598391	19.1066466565	28.2787873304

Note: the critical value table

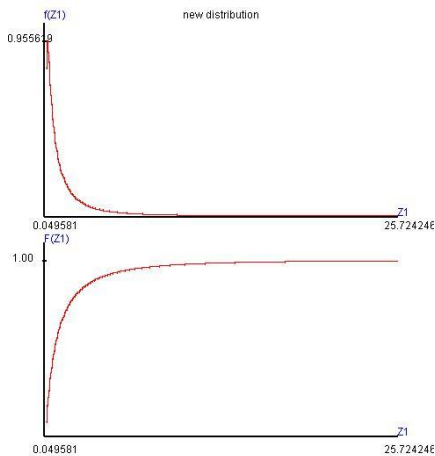
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0.0300000000	0.0460608998
0.0350000000	0.0514122236
0.0400000000	0.0566312319
0.0450000000	0.0617753586
0.0500000000	0.0668468477
0.0550000000	0.0718639557
0.0600000000	0.0768585623
0.0650000000	0.0818109307
0.0700000000	0.0867452909
0.0750000000	0.0916992605
0.0800000000	0.0966342870
0.0850000000	0.1015630691
0.0900000000	0.1065024487
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0.1000000000	0.1164024619
0.1050000000	0.1213905923
0.1100000000	0.1263817669
0.1150000000	0.1313983959
0.1200000000	0.1364459687
0.1250000000	0.1415052146
0.1300000000	0.1466125294
0.1350000000	0.1517418216
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0.1450000000	0.1621229046
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0.1600000000	0.1779747478
0.1650000000	0.1833506977
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0.2150000000	0.2396268462
0.2200000000	0.2455449941
0.2250000000	0.2515243673
0.2300000000	0.2575712701
0.2350000000	0.2636803981
0.2400000000	0.2698516798
0.2450000000	0.2761047153
0.2500000000	0.2824105791
0.2550000000	0.2887688380
0.2600000000	0.2952046775
0.2650000000	0.3017186559
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0.3050000000	0.3565097742
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0.3150000000	0.3710439424
0.3200000000	0.3784199965
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0.3300000000	0.3935010180
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0.3500000000	0.4247910067
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0.4600000000	0.6315536353
0.4650000000	0.6426451913
0.4700000000	0.6539002544
0.4750000000	0.6653179931
0.4800000000	0.6769531349
0.4850000000	0.6887783470
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0.4950000000	0.7130380148
0.5000000000	0.7254327253
0.5050000000	0.7380330625
0.5100000000	0.7508871554
0.5150000000	0.7639967521
0.5200000000	0.7772863089
0.5250000000	0.7908138594
0.5300000000	0.8045640194
0.5350000000	0.8186144085
0.5400000000	0.8329645929
0.5450000000	0.8474589762
0.5500000000	0.8622362971
0.5550000000	0.8773016513
0.5600000000	0.8926444919
0.5650000000	0.9083192517
0.5700000000	0.9242781754
0.5750000000	0.9405799765
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0.6250000000	1.1229316122
0.6300000000	1.1433723335
0.6350000000	1.1642795284
0.6400000000	1.1856840118
0.6450000000	1.2076281737
0.6500000000	1.2300201111
0.6550000000	1.2530155182
0.6600000000	1.2765483852
0.6650000000	1.3006347413
0.6700000000	1.3253145314
0.6750000000	1.3506804580
0.6800000000	1.3766777595
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0.6950000000	1.4584486346
0.7000000000	1.4872058487
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0.7200000000	1.6105758529
0.7250000000	1.6437908137
0.7300000000	1.6779713774
0.7350000000	1.7131221058
0.7400000000	1.7492949018
0.7450000000	1.7866185955

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0.7600000000	1.9062268814
0.7650000000	1.9487405484
0.7700000000	1.9928599554
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0.8250000000	2.6044412713
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0.9400000000	6.1548600360
0.9450000000	6.5446819495
0.9500000000	6.9922980920
0.9550000000	7.5147579830
0.9600000000	8.1343302953
0.9650000000	8.8838946576
0.9700000000	9.8184319320
0.9750000000	11.0229598391
0.9800000000	12.6623822576
0.9850000000	15.0604524644
0.9900000000	19.1066466565
0.9950000000	28.2787873304

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

$f_z(z), F_z(z)$



Coefficient

Mathematical Mean:	1.87980
Geometrical Mean :	0.71020
Harmonic Mean :	0.23947
Variance :	59.58405
S.D. :	7.71907
Skewed Coef. :	485.78709
Kurtosis Coef. :	735053.48740
MAD :	1.91975
Range :	15969.34838
Mid_range :	7984.67421
Median :	0.73101
Q1 :	0.28803
Q2 :	0.73101
Q3 :	1.80415
IQR :	1.51612
C.V. :	4.10632

the critical value table

		significant level		
value	0.995	0.99	0.975	0.95
	0.0147595610	0.0227322925	0.0417353075	0.0687138872

		significant level		
value	0.05	0.025	0.01	0.005
	6.6351860780	10.2980730815	17.5844902926	25.7738287385

Note: the critical value table

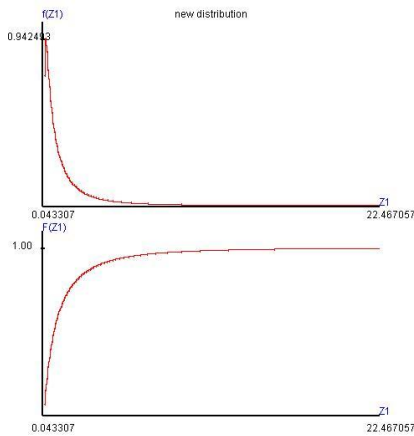
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0.1650000000	0.1876343850
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0.1900000000	0.2155502787
0.1950000000	0.2212781289
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0.2050000000	0.2328876459
0.2100000000	0.2387852985
0.2150000000	0.2447218723
0.2200000000	0.2507255432
0.2250000000	0.2567883330
0.2300000000	0.2629087540
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0.2400000000	0.2753592451
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0.2500000000	0.2880336970
0.2550000000	0.2944546243
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0.6350000000	1.1630009434
0.6400000000	1.1839306549
0.6450000000	1.2053535774
0.6500000000	1.2272347304
0.6550000000	1.2495930672
0.6600000000	1.2724869705
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0.6700000000	1.3199402794
0.6750000000	1.3445506034
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0.7450000000	1.7668372635

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0.7700000000	1.9653791043
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0.8100000000	2.3644132552
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0.8200000000	2.4850630166
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0.8300000000	2.6167583745
0.8350000000	2.6873639603
0.8400000000	2.7612645139
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0.8500000000	2.9199920857
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0.8800000000	3.5123877502
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0.9050000000	4.2125182118
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0.9150000000	4.5767958440
0.9200000000	4.7845027756
0.9250000000	5.0126421279
0.9300000000	5.2655086086
0.9350000000	5.5478046273
0.9400000000	5.8639727781
0.9450000000	6.2235433055
0.9500000000	6.6351860780
0.9550000000	7.1131226575
0.9600000000	7.6786819427
0.9650000000	8.3620154366
0.9700000000	9.2112751395
0.9750000000	10.2980730815
0.9800000000	11.7776698294
0.9850000000	13.9522439566
0.9900000000	17.5844902926
0.9950000000	25.7738287385

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

$f_z(z), F_z(z)$



Coefficient

Mathematical Mean:	1.76232
Geometrical Mean :	0.71191
Harmonic Mean :	0.24927
Variance :	41.14230
S.D. :	6.41423
Skewed Coef. :	385.69988
Kurtosis Coef. :	571476.76290
MAD :	1.73576
Range :	14383.49000
Mid_range :	7191.74502
Median :	0.74146
Q1 :	0.29782
Q2 :	0.74146
Q3 :	1.77130
IQR :	1.47348
C.V. :	3.63965

the critical value table

		significant level		
value	0.995	0.99	0.975	0.95
	0.0155724911	0.0239700694	0.0438814646	0.0720887319

		significant level		
value	0.05	0.025	0.01	0.005
	6.1034863405	9.2829735326	15.5260435491	22.5103513078

Note: the critical value table

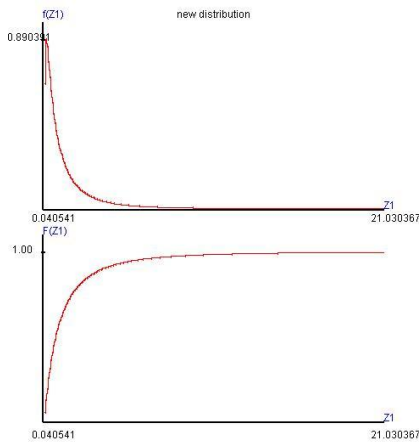
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0.0350000000	0.0555463021
0.0400000000	0.0611581810
0.0450000000	0.0666531606
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0.0550000000	0.0774657134
0.0600000000	0.0827752014
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0.0700000000	0.0933041982
0.0750000000	0.0985680937
0.0800000000	0.1038088204
0.0850000000	0.1090454497
0.0900000000	0.1142731552
0.0950000000	0.1195066460
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0.1050000000	0.1300299498
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0.2000000000	0.2356348703
0.2050000000	0.2416280625
0.2100000000	0.2476338924
0.2150000000	0.2537125094
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0.2250000000	0.2660103808
0.2300000000	0.2722576982
0.2350000000	0.2785508429
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0.2650000000	0.3176561309
0.2700000000	0.3244152515
0.2750000000	0.3312253733
0.2800000000	0.3381109930
0.2850000000	0.3450831422
0.2900000000	0.3521280802
0.2950000000	0.3592564520
0.3000000000	0.3664535107
0.3050000000	0.3737212727
0.3100000000	0.3810777173
0.3150000000	0.3885151322
0.3200000000	0.3960394397
0.3250000000	0.4036433842
0.3300000000	0.4113264525
0.3350000000	0.4191043970
0.3400000000	0.4270115485
0.3450000000	0.4350098094
0.3500000000	0.4430638426
0.3550000000	0.4512233520
0.3600000000	0.4594967958

0.3650000000	0.4678784090
0.3700000000	0.4763458235
0.3750000000	0.4849325144
0.3800000000	0.4936004855
0.3850000000	0.5024010278
0.3900000000	0.5113099222
0.3950000000	0.5203114558
0.4000000000	0.5294391514
0.4050000000	0.5387092656
0.4100000000	0.5480693770
0.4150000000	0.5575802851
0.4200000000	0.5672258332
0.4250000000	0.5769803376
0.4300000000	0.5868830475
0.4350000000	0.5969230166
0.4400000000	0.6070942534
0.4450000000	0.6174262144
0.4500000000	0.6279032436
0.4550000000	0.6385091003
0.4600000000	0.6492530161
0.4650000000	0.6601908501
0.4700000000	0.6712744932
0.4750000000	0.6825169590
0.4800000000	0.6939484436
0.4850000000	0.7055383153
0.4900000000	0.7173550209
0.4950000000	0.7293394452
0.5000000000	0.7414592850
0.5050000000	0.7537737046
0.5100000000	0.7663135613
0.5150000000	0.7790688482
0.5200000000	0.7920150222
0.5250000000	0.8051771316
0.5300000000	0.8185211381
0.5350000000	0.8321093976
0.5400000000	0.8459356738
0.5450000000	0.8600113098
0.5500000000	0.8742549328
0.5550000000	0.8888051293
0.5600000000	0.9035759292
0.5650000000	0.9186253011
0.5700000000	0.9339317304
0.5750000000	0.9495845165
0.5800000000	0.9654656190
0.5850000000	0.9816571760
0.5900000000	0.9981820803
0.5950000000	1.0150056962
0.6000000000	1.0321554402
0.6050000000	1.0496299989
0.6100000000	1.0674388541
0.6150000000	1.0856236775
0.6200000000	1.1042129363
0.6250000000	1.1231812323
0.6300000000	1.1424595811
0.6350000000	1.1621924054
0.6400000000	1.1823258475
0.6450000000	1.2029130873
0.6500000000	1.2240212024
0.6550000000	1.2455309173
0.6600000000	1.2675115820
0.6650000000	1.2899097242
0.6700000000	1.3128765250
0.6750000000	1.3363777604
0.6800000000	1.3605410836
0.6850000000	1.3851774775
0.6900000000	1.4104690732
0.6950000000	1.4363422737
0.7000000000	1.4629542871
0.7050000000	1.4902019745
0.7100000000	1.5180923142
0.7150000000	1.5468212973
0.7200000000	1.5762664193
0.7250000000	1.6065405484
0.7300000000	1.6377044353
0.7350000000	1.6697136834

0.7400000000	1.7025336946
0.7450000000	1.7363834733
0.7500000000	1.7712971095
0.7550000000	1.8072928934
0.7600000000	1.8444181512
0.7650000000	1.8827067188
0.7700000000	1.9222258510
0.7750000000	1.9630803998
0.7800000000	2.0053918758
0.7850000000	2.0490191301
0.7900000000	2.0941459893
0.7950000000	2.1410206933
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0.8100000000	2.2925087330
0.8150000000	2.3469388294
0.8200000000	2.4037573612
0.8250000000	2.4630343490
0.8300000000	2.5248708992
0.8350000000	2.5894970442
0.8400000000	2.6570453524
0.8450000000	2.7278289912
0.8500000000	2.8018833789
0.8550000000	2.8798298136
0.8600000000	2.9619309278
0.8650000000	3.0486583363
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0.8750000000	3.2366956282
0.8800000000	3.3392315170
0.8850000000	3.4489034913
0.8900000000	3.5652486123
0.8950000000	3.6901118032
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0.9050000000	3.9678831729
0.9100000000	4.1237488950
0.9150000000	4.2931244297
0.9200000000	4.4777222323
0.9250000000	4.6799955801
0.9300000000	4.9035630645
0.9350000000	5.1514444140
0.9400000000	5.4288747885
0.9450000000	5.7438955722
0.9500000000	6.1034863405
0.9550000000	6.5204040885
0.9600000000	7.0127074654
0.9650000000	7.6054543058
0.9700000000	8.3388611665
0.9750000000	9.2829735326
0.9800000000	10.5575439928
0.9850000000	12.4230418411
0.9900000000	15.5260435491
0.9950000000	22.5103513078

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

$f_z(z), F_z(z)$



Coefficient

Mathematical Mean:	1.72525
Geometrical Mean :	0.73278
Harmonic Mean :	0.26598
Variance :	59.23986
S.D. :	7.69674
Skewed Coef. :	1793.06828
Kurtosis Coef. :	7493808.31426
MAD :	1.65090
Range :	36044.61812
Mid_range :	18022.30908
Median :	0.77012
Q1 :	0.31579
Q2 :	0.77012
Q3 :	1.78283
IQR :	1.46704
C.V. :	4.46124

the critical value table

		significant level			
value	0.995	0.99	0.975	0.95	
	0.0167612005	0.0257892827	0.0471850121	0.0774009306	

		significant level			
value	0.05	0.025	0.01	0.005	
	5.8391437461	8.7871264843	14.5811862626	21.0709060020	

Note: the critical value table

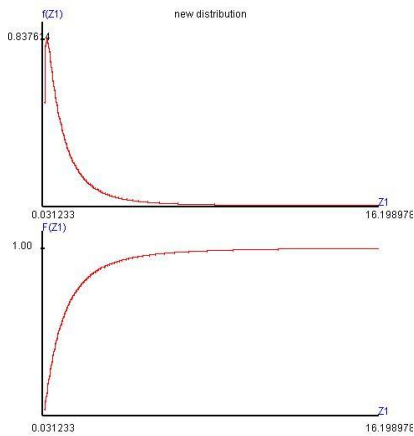
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0.0350000000	0.0596952844
0.0400000000	0.0656989583
0.0450000000	0.0715840900
0.0500000000	0.0774009306
0.0550000000	0.0831213297
0.0600000000	0.0888038844
0.0650000000	0.0944573641
0.0700000000	0.1000788468
0.0750000000	0.1056901049
0.0800000000	0.1112683447
0.0850000000	0.1168410229
0.0900000000	0.1224150685
0.0950000000	0.1279937794
0.1000000000	0.1335799023
0.1050000000	0.1391749872
0.1100000000	0.1447791550
0.1150000000	0.1503911565
0.1200000000	0.1560272779
0.1250000000	0.1616970503
0.1300000000	0.1673806750
0.1350000000	0.1730967809
0.1400000000	0.1788484943
0.1450000000	0.1846428035
0.1500000000	0.1904625573
0.1550000000	0.1963070064
0.1600000000	0.2021869250
0.1650000000	0.2080971247
0.1700000000	0.2140435647
0.1750000000	0.2200353857
0.1800000000	0.2260772625
0.1850000000	0.2321710113
0.1900000000	0.2383046548
0.1950000000	0.2444650493
0.2000000000	0.2506719796
0.2050000000	0.2569346086
0.2100000000	0.2632481491
0.2150000000	0.2696245626
0.2200000000	0.2760413344
0.2250000000	0.2825196881
0.2300000000	0.2890810582
0.2350000000	0.2956628275
0.2400000000	0.3023134027
0.2450000000	0.3090201739
0.2500000000	0.3157920766
0.2550000000	0.3226343900
0.2600000000	0.3295324595
0.2650000000	0.3364845265
0.2700000000	0.3435039384
0.2750000000	0.3506162141
0.2800000000	0.3577646971
0.2850000000	0.3649881494
0.2900000000	0.3723207541
0.2950000000	0.3797046260
0.3000000000	0.3871489259
0.3050000000	0.3946872228
0.3100000000	0.4023051228
0.3150000000	0.4099908262
0.3200000000	0.4177573730
0.3250000000	0.4255923044
0.3300000000	0.4335296325
0.3350000000	0.4415858510
0.3400000000	0.4497308360
0.3450000000	0.4579625556
0.3500000000	0.4662906022
0.3550000000	0.4747051475
0.3600000000	0.4832181353
0.3650000000	0.4918249088
0.3700000000	0.5005188765

0.3750000000	0.5093272922
0.3800000000	0.5182574399
0.3850000000	0.5272510452
0.3900000000	0.5363743686
0.3950000000	0.5456078609
0.4000000000	0.5549111680
0.4050000000	0.5643665171
0.4100000000	0.5739309062
0.4150000000	0.5836507046
0.4200000000	0.5934741936
0.4250000000	0.6034436443
0.4300000000	0.6135208868
0.4350000000	0.6237309856
0.4400000000	0.6340742726
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0.4500000000	0.6551850156
0.4550000000	0.6659462699
0.4600000000	0.6768908376
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0.4750000000	0.7106166021
0.4800000000	0.7221746652
0.4850000000	0.7339284538
0.4900000000	0.7458068341
0.4950000000	0.7578727485
0.5000000000	0.7701190159
0.5050000000	0.7825909495
0.5100000000	0.7952193735
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0.5200000000	0.8210315286
0.5250000000	0.8342386441
0.5300000000	0.8476914735
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0.5400000000	0.8751668610
0.5450000000	0.8892574527
0.5500000000	0.9035711378
0.5550000000	0.9180906796
0.5600000000	0.9328989618
0.5650000000	0.9479165684
0.5700000000	0.9632083866
0.5750000000	0.9787744722
0.5800000000	0.9945772275
0.5850000000	1.0107296332
0.5900000000	1.0271448969
0.5950000000	1.0438388505
0.6000000000	1.0608675314
0.6050000000	1.0781181594
0.6100000000	1.0957716127
0.6150000000	1.1137335707
0.6200000000	1.1320712186
0.6250000000	1.1507333936
0.6300000000	1.1698133758
0.6350000000	1.1892765120
0.6400000000	1.2091023145
0.6450000000	1.2293678585
0.6500000000	1.2501647848
0.6550000000	1.2712627064
0.6600000000	1.2928495764
0.6650000000	1.3148810164
0.6700000000	1.3373490809
0.6750000000	1.3604186391
0.6800000000	1.3840145776
0.6850000000	1.4081507344
0.6900000000	1.4327617117
0.6950000000	1.4580804218
0.7000000000	1.4839716274
0.7050000000	1.5104384585
0.7100000000	1.5376176585
0.7150000000	1.5655025220
0.7200000000	1.5941050170
0.7250000000	1.6234904241
0.7300000000	1.6536268147
0.7350000000	1.6846784795
0.7400000000	1.7164202770
0.7450000000	1.7491702414

0.7500000000	1.7828312715
0.7550000000	1.8175618172
0.7600000000	1.8532281982
0.7650000000	1.8900889846
0.7700000000	1.9282070027
0.7750000000	1.9672732490
0.7800000000	2.0077543140
0.7850000000	2.0494780713
0.7900000000	2.0926681297
0.7950000000	2.1375088642
0.8000000000	2.1839015989
0.8050000000	2.2319832794
0.8100000000	2.2820622652
0.8150000000	2.3337904239
0.8200000000	2.3878278162
0.8250000000	2.4441416766
0.8300000000	2.5026327903
0.8350000000	2.5636459449
0.8400000000	2.6273528376
0.8450000000	2.6940790483
0.8500000000	2.7640171309
0.8550000000	2.8372406203
0.8600000000	2.9144357624
0.8650000000	2.9958391964
0.8700000000	3.0816537668
0.8750000000	3.1723733634
0.8800000000	3.2687416402
0.8850000000	3.3710040469
0.8900000000	3.4797519576
0.8950000000	3.5961603689
0.9000000000	3.7208716412
0.9050000000	3.8548082109
0.9100000000	4.0001255169
0.9150000000	4.1573523547
0.9200000000	4.3293431934
0.9250000000	4.5184382451
0.9300000000	4.7257121200
0.9350000000	4.9552790917
0.9400000000	5.2124263963
0.9450000000	5.5040469109
0.9500000000	5.8391437461
0.9550000000	6.2263775453
0.9600000000	6.6815679948
0.9650000000	7.2328354108
0.9700000000	7.9130429869
0.9750000000	8.7871264843
0.9800000000	9.9670452157
0.9850000000	11.6902770164
0.9900000000	14.5811862626
0.9950000000	21.0709060020

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

$f_z(z), F_z(z)$



Coefficient

Mathematical Mean:	1.51039
Geometrical Mean :	0.72409
Harmonic Mean :	0.28727
Variance :	19.70554
S.D. :	4.43909
Skewed Coef. :	240.78229
Kurtosis Coef. :	199612.20760
MAD :	1.33679
Range :	6783.79559
Mid_range :	3391.89782
Median :	0.77556
Q1 :	0.33485
Q2 :	0.77556
Q3 :	1.66767
IQR :	1.33282
C.V. :	2.93903

the critical value table

		significant level			
value	0.995	0.99	0.975	0.95	
	0.0187608864	0.0287762910	0.0524177842	0.0853875874	

		significant level			
value	0.05	0.025	0.01	0.005	
	4.8434873891	7.0598879474	11.3751232239	16.2302206030	

Note: the critical value table

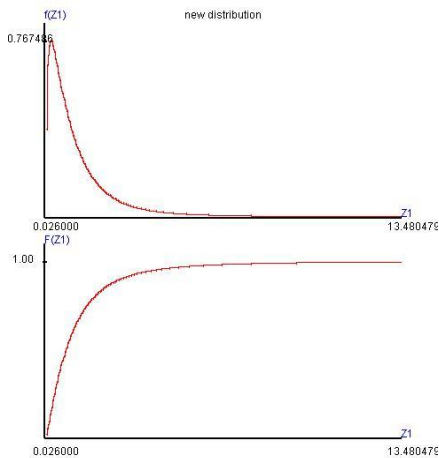
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0.0200000000	0.0451060750
0.0250000000	0.0524177842
0.0300000000	0.0593956837
0.0350000000	0.0661325284
0.0400000000	0.0726899667
0.0450000000	0.0790958516
0.0500000000	0.0853875874
0.0550000000	0.0916161783
0.0600000000	0.0977915485
0.0650000000	0.1038850613
0.0700000000	0.1099521133
0.0750000000	0.1159894982
0.0800000000	0.1219913334
0.0850000000	0.1279646099
0.0900000000	0.1339208247
0.0950000000	0.1398603748
0.1000000000	0.1458068382
0.1050000000	0.1517617076
0.1100000000	0.1577120456
0.1150000000	0.1636915111
0.1200000000	0.1696700170
0.1250000000	0.1756434963
0.1300000000	0.1816584905
0.1350000000	0.1876664883
0.1400000000	0.1937081612
0.1450000000	0.1997716726
0.1500000000	0.2058673192
0.1550000000	0.2119783848
0.1600000000	0.2181097027
0.1650000000	0.2242694016
0.1700000000	0.2304634161
0.1750000000	0.2366966771
0.1800000000	0.2429453691
0.1850000000	0.2492375579
0.1900000000	0.2555570571
0.1950000000	0.2619343688
0.2000000000	0.2683414729
0.2050000000	0.2747981622
0.2100000000	0.2812789123
0.2150000000	0.2878268933
0.2200000000	0.2944088133
0.2250000000	0.3010210426
0.2300000000	0.3076825459
0.2350000000	0.3143993103
0.2400000000	0.3211658129
0.2450000000	0.3279831887
0.2500000000	0.3348465129
0.2550000000	0.3417830293
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0.2650000000	0.3558029567
0.2700000000	0.3628918507
0.2750000000	0.3700373024
0.2800000000	0.3772288759
0.2850000000	0.3844844974
0.2900000000	0.3918254546
0.2950000000	0.3992379301
0.3000000000	0.4066844588
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0.3100000000	0.4217767109
0.3150000000	0.4294260259
0.3200000000	0.4371445347
0.3250000000	0.4449402920
0.3300000000	0.4527980094
0.3350000000	0.4607431342
0.3400000000	0.4687399440
0.3450000000	0.4768377778
0.3500000000	0.4849919786
0.3550000000	0.4932545957
0.3600000000	0.5015884075
0.3650000000	0.5099837685
0.3700000000	0.5184823768

0.3750000000	0.5270594401
0.3800000000	0.5357421867
0.3850000000	0.5444858031
0.3900000000	0.5533402863
0.3950000000	0.5622868597
0.4000000000	0.5713083419
0.4050000000	0.5804540231
0.4100000000	0.5896992061
0.4150000000	0.5990141712
0.4200000000	0.6084692972
0.4250000000	0.6180097485
0.4300000000	0.6276836434
0.4350000000	0.6374480504
0.4400000000	0.6473135586
0.4450000000	0.6572606756
0.4500000000	0.6673835977
0.4550000000	0.6775977839
0.4600000000	0.6879443963
0.4650000000	0.6984407631
0.4700000000	0.7090290757
0.4750000000	0.7197685366
0.4800000000	0.7306171713
0.4850000000	0.7416479518
0.4900000000	0.7527912746
0.4950000000	0.7641155147
0.5000000000	0.7755563755
0.5050000000	0.7871866283
0.5100000000	0.7989060346
0.5150000000	0.8108170334
0.5200000000	0.8228711096
0.5250000000	0.8350886849
0.5300000000	0.8474901211
0.5350000000	0.8600532066
0.5400000000	0.8727868473
0.5450000000	0.8857488832
0.5500000000	0.8988897655
0.5550000000	0.9122042212
0.5600000000	0.9257133521
0.5650000000	0.9394133497
0.5700000000	0.9533037937
0.5750000000	0.9674591828
0.5800000000	0.9817826543
0.5850000000	0.9963363918
0.5900000000	1.0111997918
0.5950000000	1.0262850817
0.6000000000	1.0415240262
0.6050000000	1.0571286844
0.6100000000	1.0729453630
0.6150000000	1.0890914548
0.6200000000	1.1054388566
0.6250000000	1.1221020925
0.6300000000	1.1390470749
0.6350000000	1.1563186798
0.6400000000	1.1738988156
0.6450000000	1.1918214456
0.6500000000	1.2100259307
0.6550000000	1.2286446838
0.6600000000	1.2475852172
0.6650000000	1.2668765421
0.6700000000	1.2865497867
0.6750000000	1.3066176055
0.6800000000	1.3270911503
0.6850000000	1.3480408410
0.6900000000	1.3694248965
0.6950000000	1.3912561580
0.7000000000	1.4136093499
0.7050000000	1.4364151862
0.7100000000	1.4597455596
0.7150000000	1.4835154276
0.7200000000	1.5079396244
0.7250000000	1.5329311817
0.7300000000	1.5585406512
0.7350000000	1.5847827029
0.7400000000	1.6117330762
0.7450000000	1.6394396623

0.7500000000	1.6676713302
0.7550000000	1.6968494831
0.7600000000	1.7267354976
0.7650000000	1.7575884174
0.7700000000	1.7892141319
0.7750000000	1.8218164849
0.7800000000	1.8553951116
0.7850000000	1.8900114931
0.7900000000	1.9257343217
0.7950000000	1.9626084311
0.8000000000	2.0007404177
0.8050000000	2.0401501940
0.8100000000	2.0808174061
0.8150000000	2.1230927566
0.8200000000	2.1669964548
0.8250000000	2.2125273537
0.8300000000	2.2598501162
0.8350000000	2.3091311401
0.8400000000	2.3603345536
0.8450000000	2.4140084302
0.8500000000	2.4700357017
0.8550000000	2.5286212133
0.8600000000	2.5899817795
0.8650000000	2.6543317792
0.8700000000	2.7224404188
0.8750000000	2.7940213412
0.8800000000	2.8696391730
0.8850000000	2.9498646020
0.8900000000	3.0352102592
0.8950000000	3.1257827654
0.9000000000	3.2226476063
0.9050000000	3.3267971581
0.9100000000	3.4385477828
0.9150000000	3.5598941573
0.9200000000	3.6917933744
0.9250000000	3.8361824816
0.9300000000	3.9952767594
0.9350000000	4.1711950920
0.9400000000	4.3678798642
0.9450000000	4.5897309807
0.9500000000	4.8434873891
0.9550000000	5.1354671947
0.9600000000	5.4793941658
0.9650000000	5.8929243785
0.9700000000	6.4037080851
0.9750000000	7.0598879474
0.9800000000	7.9447874693
0.9850000000	9.2283042470
0.9900000000	11.3751232239
0.9950000000	16.2302206030

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

$f_z(z), F_z(z)$



Coefficient

Mathematical Mean:	1.39458
Geometrical Mean :	0.73840
Harmonic Mean :	0.32072
Variance :	38.75163
S.D. :	6.22508
Skewed Coef. :	3034.06963
Kurtosis Coef. :	14011854.21285
MAD :	1.14520
Range :	31836.39845
Mid_range :	15918.19925
Median :	0.80137
Q1 :	0.36622
Q2 :	0.80137
Q3 :	1.60001
IQR :	1.23379
C.V. :	4.46376

the critical value table

	significant level			
value	0.995	0.99	0.975	0.95
	0.0218800857	0.0334998457	0.0605595173	0.0978759480
	significant level			
value	0.05	0.025	0.01	0.005
	4.2165895312	6.0258384093	9.5526344456	13.5064574250

Note: the critical value table

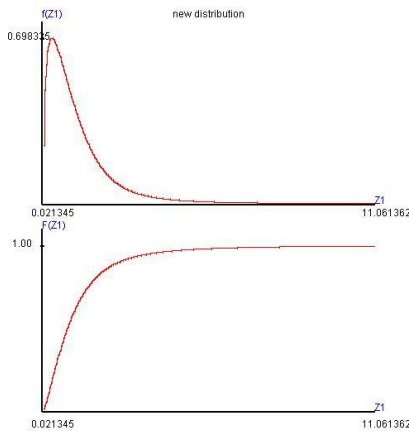
0.0050000000	0.0218800857
0.0100000000	0.0334998457
0.0150000000	0.0433098930
0.0200000000	0.0522283948
0.0250000000	0.0605595173
0.0300000000	0.0684929683
0.0350000000	0.0761362846
0.0400000000	0.0835553285
0.0450000000	0.0907962111
0.0500000000	0.0978759480
0.0550000000	0.1048558897
0.0600000000	0.1117338964
0.0650000000	0.1185520196
0.0700000000	0.1252851879
0.0750000000	0.1319616703
0.0800000000	0.1386056576
0.0850000000	0.1452210271
0.0900000000	0.1518214608
0.0950000000	0.1583863404
0.1000000000	0.1649031529
0.1050000000	0.1714362172
0.1100000000	0.1779600983
0.1150000000	0.1844703621
0.1200000000	0.1909766129
0.1250000000	0.1974702453
0.1300000000	0.2039754073
0.1350000000	0.2104988043
0.1400000000	0.2170189750
0.1450000000	0.2235616798
0.1500000000	0.2301067067
0.1550000000	0.2366656881
0.1600000000	0.2432422448
0.1650000000	0.2498362939
0.1700000000	0.2564523950
0.1750000000	0.2630948731
0.1800000000	0.2697711562
0.1850000000	0.2764387824
0.1900000000	0.2831394677
0.1950000000	0.2898882319
0.2000000000	0.2966585494
0.2050000000	0.3034527646
0.2100000000	0.3102971607
0.2150000000	0.3171732803
0.2200000000	0.3240715981
0.2250000000	0.3310132491
0.2300000000	0.3379820024
0.2350000000	0.3449783271
0.2400000000	0.3520279387
0.2450000000	0.3591103265
0.2500000000	0.3662230059
0.2550000000	0.3733878181
0.2600000000	0.3806090418
0.2650000000	0.3878851151
0.2700000000	0.3951818924
0.2750000000	0.4025087344
0.2800000000	0.4098773374
0.2850000000	0.4173299367
0.2900000000	0.4248120416
0.2950000000	0.4323232811
0.3000000000	0.4399432732
0.3050000000	0.4475908015
0.3100000000	0.4553056689
0.3150000000	0.4630581188
0.3200000000	0.4708577832
0.3250000000	0.4787088022
0.3300000000	0.4866638630
0.3350000000	0.4946684801
0.3400000000	0.5027099337
0.3450000000	0.5108256433
0.3500000000	0.5189764105
0.3550000000	0.5272132278
0.3600000000	0.5355298878
0.3650000000	0.5438985931
0.3700000000	0.5523296847

0.3750000000	0.5608455702
0.3800000000	0.5694282703
0.3850000000	0.5780973147
0.3900000000	0.5868517083
0.3950000000	0.5956689148
0.4000000000	0.6045682363
0.4050000000	0.6135286600
0.4100000000	0.6225467568
0.4150000000	0.6317109551
0.4200000000	0.6409137137
0.4250000000	0.6502107068
0.4300000000	0.6595966816
0.4350000000	0.6690733887
0.4400000000	0.6786247250
0.4450000000	0.6882848879
0.4500000000	0.6980503302
0.4550000000	0.7078856177
0.4600000000	0.7178533872
0.4650000000	0.7279004071
0.4700000000	0.7380825087
0.4750000000	0.7483336807
0.4800000000	0.7586913348
0.4850000000	0.7691732395
0.4900000000	0.7797924620
0.4950000000	0.7905191355
0.5000000000	0.8013653882
0.5050000000	0.8123240284
0.5100000000	0.8234092919
0.5150000000	0.8346335412
0.5200000000	0.8459761696
0.5250000000	0.8574572035
0.5300000000	0.8690875106
0.5350000000	0.8808435314
0.5400000000	0.8927469013
0.5450000000	0.9047936979
0.5500000000	0.9169972624
0.5550000000	0.9293379417
0.5600000000	0.9418383316
0.5650000000	0.9545417005
0.5700000000	0.9673329276
0.5750000000	0.9803464469
0.5800000000	0.9935572561
0.5850000000	1.0069666504
0.5900000000	1.0205735005
0.5950000000	1.0343111532
0.6000000000	1.0482682513
0.6050000000	1.0624341814
0.6100000000	1.0768153483
0.6150000000	1.0913828813
0.6200000000	1.1061436539
0.6250000000	1.1211601196
0.6300000000	1.1364408371
0.6350000000	1.1519937040
0.6400000000	1.1677667763
0.6450000000	1.1837770582
0.6500000000	1.2000665729
0.6550000000	1.2166164505
0.6600000000	1.2335041725
0.6650000000	1.2506136367
0.6700000000	1.2680712202
0.6750000000	1.2858531908
0.6800000000	1.3039633369
0.6850000000	1.3223814801
0.6900000000	1.3411683932
0.6950000000	1.3603505623
0.7000000000	1.3798303082
0.7050000000	1.3997526698
0.7100000000	1.4201024228
0.7150000000	1.4408908644
0.7200000000	1.4621225395
0.7250000000	1.4837767770
0.7300000000	1.5059594649
0.7350000000	1.5286771226
0.7400000000	1.5519557989
0.7450000000	1.5757162914

0.7500000000	1.6000121871
0.7550000000	1.6249852832
0.7600000000	1.6506004350
0.7650000000	1.6767777133
0.7700000000	1.7037219755
0.7750000000	1.7314685024
0.7800000000	1.7600747629
0.7850000000	1.7894835344
0.7900000000	1.8196533671
0.7950000000	1.8508118968
0.8000000000	1.8829135043
0.8050000000	1.9160657228
0.8100000000	1.9503463422
0.8150000000	1.9857696643
0.8200000000	2.0224434008
0.8250000000	2.0605133746
0.8300000000	2.0999370232
0.8350000000	2.1409777866
0.8400000000	2.1835012081
0.8450000000	2.2278234605
0.8500000000	2.2741379067
0.8550000000	2.3228453225
0.8600000000	2.3735488908
0.8650000000	2.4267078929
0.8700000000	2.4824838880
0.8750000000	2.5413317768
0.8800000000	2.6035518879
0.8850000000	2.6693400582
0.8900000000	2.7393544066
0.8950000000	2.8138634196
0.9000000000	2.8934262892
0.9050000000	2.9785491077
0.9100000000	3.0705586887
0.9150000000	3.1701518498
0.9200000000	3.2781868978
0.9250000000	3.3960626254
0.9300000000	3.5255367188
0.9350000000	3.6691178654
0.9400000000	3.8293964898
0.9450000000	4.0100950266
0.9500000000	4.2165895312
0.9550000000	4.4551700239
0.9600000000	4.7360585889
0.9650000000	5.0739312338
0.9700000000	5.4914741208
0.9750000000	6.0258384093
0.9800000000	6.7462544375
0.9850000000	7.7958284187
0.9900000000	9.5526344456
0.9950000000	13.5064574250

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

$f_z(z), F_z(z)$



Coefficient

Mathematical Mean:	1.28941
Geometrical Mean :	0.76188
Harmonic Mean :	0.37202
Variance :	9.54129
S.D. :	3.08890
Skewed Coef. :	473.17927
Kurtosis Coef. :	837017.17752
MAD :	0.95963
Range :	7451.79498
Mid_range :	3725.89752
Median :	0.83412
Q1 :	0.41233
Q2 :	0.83412
Q3 :	1.52084
IQR :	1.10851
C.V. :	2.39560

the critical value table

		significant level			
value	0.995	0.99	0.975	0.95	
	0.0271905364	0.0414427855	0.0741465740	0.1182926000	

		significant level			
value	0.05	0.025	0.01	0.005	
	3.6206893459	5.0693858396	7.9029751554	11.0827140277	

Note: the critical value table

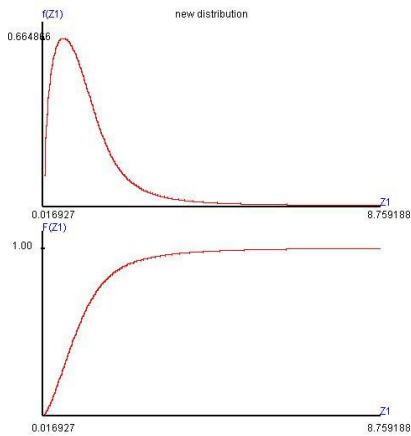
0.0050000000	0.0271905364
0.0100000000	0.0414427855
0.0150000000	0.0533635068
0.0200000000	0.0641422997
0.0250000000	0.0741465740
0.0300000000	0.0836065281
0.0350000000	0.0926987196
0.0400000000	0.1014798495
0.0450000000	0.1099787715
0.0500000000	0.1182926000
0.0550000000	0.1264165918
0.0600000000	0.1344427710
0.0650000000	0.1423330553
0.0700000000	0.1501145586
0.0750000000	0.1577797217
0.0800000000	0.1654053357
0.0850000000	0.1729487363
0.0900000000	0.1804361007
0.0950000000	0.1878511100
0.1000000000	0.1952632988
0.1050000000	0.2026241078
0.1100000000	0.2099345453
0.1150000000	0.2172084696
0.1200000000	0.2244822881
0.1250000000	0.2317248361
0.1300000000	0.2389140693
0.1350000000	0.2460887346
0.1400000000	0.2533156273
0.1450000000	0.2604786826
0.1500000000	0.2676489434
0.1550000000	0.2748072886
0.1600000000	0.2819420205
0.1650000000	0.2891124176
0.1700000000	0.2962582536
0.1750000000	0.3034461674
0.1800000000	0.3106138508
0.1850000000	0.3177911889
0.1900000000	0.3249508065
0.1950000000	0.3321428459
0.2000000000	0.3393582848
0.2050000000	0.3465661414
0.2100000000	0.3538154157
0.2150000000	0.3610726590
0.2200000000	0.3683272463
0.2250000000	0.3756000526
0.2300000000	0.3829000628
0.2350000000	0.3902235670
0.2400000000	0.3975776838
0.2450000000	0.4049559016
0.2500000000	0.4123339740
0.2550000000	0.4197315161
0.2600000000	0.4271572939
0.2650000000	0.4346147701
0.2700000000	0.4421103519
0.2750000000	0.4496129486
0.2800000000	0.4571628630
0.2850000000	0.4647410424
0.2900000000	0.4723427569
0.2950000000	0.4799585320
0.3000000000	0.4876419607
0.3050000000	0.4953420965
0.3100000000	0.5030736425
0.3150000000	0.5108677155
0.3200000000	0.5186972172
0.3250000000	0.5265534822
0.3300000000	0.5344503853
0.3350000000	0.5423705907
0.3400000000	0.5503644695
0.3450000000	0.5583721489
0.3500000000	0.5664139088
0.3550000000	0.5745007153
0.3600000000	0.5826506223
0.3650000000	0.5908504727
0.3700000000	0.5990684026
0.3750000000	0.6073488337

0.3800000000	0.6156869805
0.3850000000	0.6240782917
0.3900000000	0.6325235664
0.3950000000	0.6410174492
0.4000000000	0.6496015058
0.4050000000	0.6581925874
0.4100000000	0.6668667852
0.4150000000	0.6755769329
0.4200000000	0.6843586951
0.4250000000	0.6931798607
0.4300000000	0.7020774982
0.4350000000	0.7110432621
0.4400000000	0.7200736255
0.4450000000	0.7291879720
0.4500000000	0.7383593247
0.4550000000	0.7475753795
0.4600000000	0.7568864090
0.4650000000	0.7662662534
0.4700000000	0.7757240058
0.4750000000	0.7852712078
0.4800000000	0.7948759736
0.4850000000	0.8045407311
0.4900000000	0.8143117675
0.4950000000	0.8241512328
0.5000000000	0.8341158522
0.5050000000	0.8441507769
0.5100000000	0.8542938613
0.5150000000	0.8644858774
0.5200000000	0.8747372253
0.5250000000	0.8851528511
0.5300000000	0.8956495374
0.5350000000	0.9062757416
0.5400000000	0.9170022598
0.5450000000	0.9278181913
0.5500000000	0.9387854437
0.5550000000	0.9497968982
0.5600000000	0.9609446037
0.5650000000	0.9722181713
0.5700000000	0.9835981868
0.5750000000	0.9951093288
0.5800000000	1.0067608296
0.5850000000	1.0185837945
0.5900000000	1.0305180973
0.5950000000	1.0425849129
0.6000000000	1.0547724540
0.6050000000	1.0671458901
0.6100000000	1.0796748855
0.6150000000	1.0923727413
0.6200000000	1.1052145243
0.6250000000	1.1182503057
0.6300000000	1.1314490170
0.6350000000	1.1448688592
0.6400000000	1.1584360738
0.6450000000	1.1721450086
0.6500000000	1.1861020947
0.6550000000	1.2002063656
0.6600000000	1.2145521228
0.6650000000	1.2291743713
0.6700000000	1.2439599081
0.6750000000	1.2589868936
0.6800000000	1.2742864929
0.6850000000	1.2898461653
0.6900000000	1.3056473375
0.6950000000	1.3217398582
0.7000000000	1.3381391151
0.7050000000	1.3548030779
0.7100000000	1.3718248445
0.7150000000	1.3891671582
0.7200000000	1.4068422571
0.7250000000	1.4248373903
0.7300000000	1.4432496514
0.7350000000	1.4619680162
0.7400000000	1.4811512950
0.7450000000	1.5007532937
0.7500000000	1.5208393770

0.7550000000	1.5413828176
0.7600000000	1.5623625591
0.7650000000	1.5839032051
0.7700000000	1.6059675177
0.7750000000	1.6286148472
0.7800000000	1.6517778157
0.7850000000	1.6755901051
0.7900000000	1.7000815233
0.7950000000	1.7253349385
0.8000000000	1.7513373759
0.8050000000	1.7781769756
0.8100000000	1.8058497008
0.8150000000	1.8343511973
0.8200000000	1.8639692915
0.8250000000	1.8945738134
0.8300000000	1.9263908211
0.8350000000	1.9592526460
0.8400000000	1.9934994236
0.8450000000	2.0292113039
0.8500000000	2.0664766101
0.8550000000	2.1054284403
0.8600000000	2.1460760950
0.8650000000	2.1887118118
0.8700000000	2.2335213071
0.8750000000	2.2806560414
0.8800000000	2.3305335785
0.8850000000	2.3832442714
0.8900000000	2.4389622592
0.8950000000	2.4984899591
0.9000000000	2.5621609138
0.9050000000	2.6302701096
0.9100000000	2.7036407315
0.9150000000	2.7830736449
0.9200000000	2.8696234142
0.9250000000	2.9637811958
0.9300000000	3.0677008183
0.9350000000	3.1825050388
0.9400000000	3.3107793695
0.9450000000	3.4556487047
0.9500000000	3.6206893459
0.9550000000	3.8122990277
0.9600000000	4.0366492841
0.9650000000	4.3077750216
0.9700000000	4.6410341162
0.9750000000	5.0693858396
0.9800000000	5.6488315024
0.9850000000	6.4917684666
0.9900000000	7.9029751554
0.9950000000	11.0827140277

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

$f_z(z), F_z(z)$



Coefficient

Mathematical Mean:	1.19587
Geometrical Mean :	0.80013
Harmonic Mean :	0.45666
Variance :	7.40785
S.D. :	2.72174
Skewed Coef. :	1273.21668
Kurtosis Coef. :	4099601.19684
MAD :	0.77259
Range :	9646.13148
Mid_range :	4823.06579
Median :	0.87571
Q1 :	0.48360
Q2 :	0.87571
Q3 :	1.42867
IQR :	0.94507
C.V. :	2.27594

the critical value table

		significant level			
value	0.995	0.99	0.975	0.95	
	0.0377562270	0.0570013452	0.1000284308	0.1558790338	

		significant level			
value	0.05	0.025	0.01	0.005	
	3.0406011061	4.1548429278	6.3316234505	8.7760674324	

Note: the critical value table

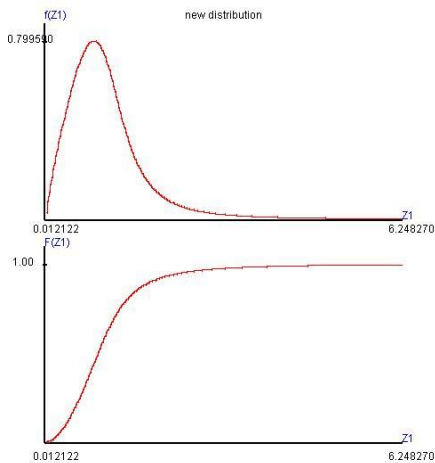
0.0050000000	0.0377562270
0.0100000000	0.0570013452
0.0150000000	0.0728637787
0.0200000000	0.0870117122
0.0250000000	0.1000284308
0.0300000000	0.1121992381
0.0350000000	0.1237691463
0.0400000000	0.1348680325
0.0450000000	0.1455139985
0.0500000000	0.1558790338
0.0550000000	0.1659153388
0.0600000000	0.1757471972
0.0650000000	0.1853800878
0.0700000000	0.1948210300
0.0750000000	0.2040415099
0.0800000000	0.2131317448
0.0850000000	0.2220848459
0.0900000000	0.2309244269
0.0950000000	0.2396558599
0.1000000000	0.2482827847
0.1050000000	0.2568139532
0.1100000000	0.2652668092
0.1150000000	0.2736121739
0.1200000000	0.2818997712
0.1250000000	0.2901145449
0.1300000000	0.2982865751
0.1350000000	0.3064038052
0.1400000000	0.3144100533
0.1450000000	0.3223882035
0.1500000000	0.3303417634
0.1550000000	0.3382565745
0.1600000000	0.3461574119
0.1650000000	0.3539833910
0.1700000000	0.3617798702
0.1750000000	0.3695500910
0.1800000000	0.3773093334
0.1850000000	0.3850217918
0.1900000000	0.3927040874
0.1950000000	0.4003555871
0.2000000000	0.4080049958
0.2050000000	0.4156152080
0.2100000000	0.4232207808
0.2150000000	0.4307932590
0.2200000000	0.4383484429
0.2250000000	0.4459134753
0.2300000000	0.4534643465
0.2350000000	0.4610106870
0.2400000000	0.4685524124
0.2450000000	0.4760927651
0.2500000000	0.4835983078
0.2550000000	0.4911138287
0.2600000000	0.4986444602
0.2650000000	0.5061644577
0.2700000000	0.5136869977
0.2750000000	0.5212184611
0.2800000000	0.5287251243
0.2850000000	0.5362784108
0.2900000000	0.5437917845
0.2950000000	0.5513141276
0.3000000000	0.5588356033
0.3050000000	0.5663490049
0.3100000000	0.5738765294
0.3150000000	0.5814215546
0.3200000000	0.5889834844
0.3250000000	0.5965481956
0.3300000000	0.6041296220
0.3350000000	0.6117333985
0.3400000000	0.6193455400
0.3450000000	0.6269604297
0.3500000000	0.6346078612
0.3550000000	0.6422555901
0.3600000000	0.6499534013
0.3650000000	0.6576444324
0.3700000000	0.6653367056
0.3750000000	0.6730624221

0.3800000000	0.6808193427
0.3850000000	0.6885653236
0.3900000000	0.6963480541
0.3950000000	0.7041327846
0.4000000000	0.7119609102
0.4050000000	0.7198324814
0.4100000000	0.7277337254
0.4150000000	0.7356604830
0.4200000000	0.7436114126
0.4250000000	0.7515971506
0.4300000000	0.7595892873
0.4350000000	0.7676422196
0.4400000000	0.7757315352
0.4450000000	0.7838290842
0.4500000000	0.7919727163
0.4550000000	0.8001662929
0.4600000000	0.8083910318
0.4650000000	0.8166569916
0.4700000000	0.8249834386
0.4750000000	0.8333311221
0.4800000000	0.8417010636
0.4850000000	0.8501349425
0.4900000000	0.8586147545
0.4950000000	0.8671436598
0.5000000000	0.8757134369
0.5050000000	0.8843213808
0.5100000000	0.8929856356
0.5150000000	0.9017418061
0.5200000000	0.9105381786
0.5250000000	0.9193828990
0.5300000000	0.9282890333
0.5350000000	0.9372745142
0.5400000000	0.9463023022
0.5450000000	0.9553768217
0.5500000000	0.9645586451
0.5550000000	0.9738084056
0.5600000000	0.9831266126
0.5650000000	0.9925201667
0.5700000000	1.0019761287
0.5750000000	1.0115353984
0.5800000000	1.0211729362
0.5850000000	1.0308725618
0.5900000000	1.0406985427
0.5950000000	1.0505990136
0.6000000000	1.0605770926
0.6050000000	1.0706829594
0.6100000000	1.0808364693
0.6150000000	1.0911302144
0.6200000000	1.1015284259
0.6250000000	1.1120395408
0.6300000000	1.1226613969
0.6350000000	1.1334183520
0.6400000000	1.1443032214
0.6450000000	1.1553208833
0.6500000000	1.1664608452
0.6550000000	1.1777640396
0.6600000000	1.1891792950
0.6650000000	1.2007648556
0.6700000000	1.2125293719
0.6750000000	1.2244566253
0.6800000000	1.2365540256
0.6850000000	1.2488318602
0.6900000000	1.2612892613
0.6950000000	1.2739267015
0.7000000000	1.2867726581
0.7050000000	1.2998450005
0.7100000000	1.3131154322
0.7150000000	1.3265845947
0.7200000000	1.3403095444
0.7250000000	1.3543196150
0.7300000000	1.3686031748
0.7350000000	1.3831585762
0.7400000000	1.3980606737
0.7450000000	1.4132059296
0.7500000000	1.4286713475

0.7550000000	1.4444733417
0.7600000000	1.4606487927
0.7650000000	1.4772334770
0.7700000000	1.4941919619
0.7750000000	1.5115882917
0.7800000000	1.5293957223
0.7850000000	1.5476762653
0.7900000000	1.5664809162
0.7950000000	1.5858658150
0.8000000000	1.6058077208
0.8050000000	1.6263631685
0.8100000000	1.6475666960
0.8150000000	1.6694293045
0.8200000000	1.6919939593
0.8250000000	1.7154396897
0.8300000000	1.7397191193
0.8350000000	1.7649703145
0.8400000000	1.7912500359
0.8450000000	1.8184721795
0.8500000000	1.8470320639
0.8550000000	1.8767392767
0.8600000000	1.9078672369
0.8650000000	1.9405897761
0.8700000000	1.9749317164
0.8750000000	2.0109877985
0.8800000000	2.0491677525
0.8850000000	2.0895630798
0.8900000000	2.1323518541
0.8950000000	2.1780962200
0.9000000000	2.2269694856
0.9050000000	2.2791504846
0.9100000000	2.3355306261
0.9150000000	2.3964472743
0.9200000000	2.4626972513
0.9250000000	2.5352378342
0.9300000000	2.6150150331
0.9350000000	2.7031665134
0.9400000000	2.8016857817
0.9450000000	2.9132420197
0.9500000000	3.0406011061
0.9550000000	3.1877279183
0.9600000000	3.3609362397
0.9650000000	3.5693603902
0.9700000000	3.8259545492
0.9750000000	4.1548429278
0.9800000000	4.6008266683
0.9850000000	5.2491657108
0.9900000000	6.3316234505
0.9950000000	8.7760674324

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

$f_z(z), F_z(z)$



Coefficient

Mathematical Mean:	1.10874
Geometrical Mean :	0.86515
Harmonic Mean :	0.61407
Variance :	2.38952
S.D. :	1.54581
Skewed Coef. :	245.58659
Kurtosis Coef. :	204828.40770
MAD :	0.55395
Range :	1971.36938
Mid_range :	985.68477
Median :	0.92904
Q1 :	0.60711
Q2 :	0.92904
Q3 :	1.31273
IQR :	0.70562
C.V. :	1.39421

the critical value table

	significant level			
value	0.995	0.99	0.975	0.95
	0.0676092554	0.0994822216	0.1662690974	0.2452140861
	significant level			
value	0.05	0.025	0.01	0.005
	2.4046801021	3.1571361427	4.6203755888	6.2603137694

Note: the critical value table

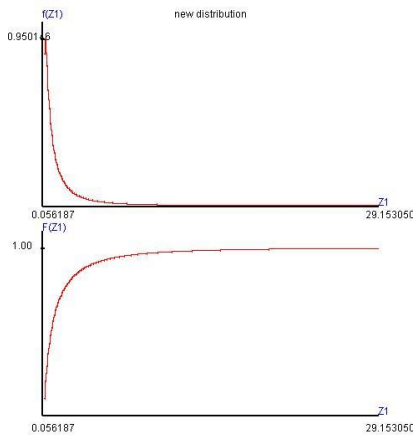
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0.0150000000	0.1248492531
0.0200000000	0.1466542171
0.0250000000	0.1662690974
0.0300000000	0.1841482714
0.0350000000	0.2008216938
0.0400000000	0.2164580812
0.0450000000	0.2312014145
0.0500000000	0.2452140861
0.0550000000	0.2586765509
0.0600000000	0.2716013632
0.0650000000	0.2840664940
0.0700000000	0.2961191770
0.0750000000	0.3077901884
0.0800000000	0.3191339209
0.0850000000	0.3301454551
0.0900000000	0.3408704763
0.0950000000	0.3513822855
0.1000000000	0.3616337191
0.1050000000	0.3716841922
0.1100000000	0.3815178465
0.1150000000	0.3911541928
0.1200000000	0.4005932560
0.1250000000	0.4098738896
0.1300000000	0.4190227820
0.1350000000	0.4280225747
0.1400000000	0.4368462964
0.1450000000	0.4455342928
0.1500000000	0.4541185042
0.1550000000	0.4625987630
0.1600000000	0.4709092344
0.1650000000	0.4791798872
0.1700000000	0.4873249005
0.1750000000	0.4953613618
0.1800000000	0.5033378231
0.1850000000	0.5111847370
0.1900000000	0.5189817059
0.1950000000	0.5267077463
0.2000000000	0.5343226439
0.2050000000	0.5418987510
0.2100000000	0.5493704215
0.2150000000	0.5568042733
0.2200000000	0.5641485293
0.2250000000	0.5714486474
0.2300000000	0.5786834080
0.2350000000	0.5858455901
0.2400000000	0.5929747052
0.2450000000	0.6000845949
0.2500000000	0.6071132748
0.2550000000	0.6141010099
0.2600000000	0.6210387811
0.2650000000	0.6279426300
0.2700000000	0.6347966848
0.2750000000	0.6416136640
0.2800000000	0.6484000684
0.2850000000	0.6551434629
0.2900000000	0.6618471588
0.2950000000	0.6685322506
0.3000000000	0.6751830386
0.3050000000	0.6818049300
0.3100000000	0.6884098188
0.3150000000	0.6949609108
0.3200000000	0.7014971846
0.3250000000	0.7079914300
0.3300000000	0.7144894597
0.3350000000	0.7209621961
0.3400000000	0.7273980443
0.3450000000	0.7338193043
0.3500000000	0.7402307023
0.3550000000	0.7466116941
0.3600000000	0.7529921635
0.3650000000	0.7593190897
0.3700000000	0.7656546561

0.3750000000	0.7719681143
0.3800000000	0.7782649496
0.3850000000	0.7845630470
0.3900000000	0.7908402402
0.3950000000	0.7971261437
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0.4050000000	0.8096663084
0.4100000000	0.8159130225
0.4150000000	0.8221860906
0.4200000000	0.8284237836
0.4250000000	0.8346746453
0.4300000000	0.8409326670
0.4350000000	0.8471902304
0.4400000000	0.8534463859
0.4450000000	0.8597115568
0.4500000000	0.8659667873
0.4550000000	0.8722225626
0.4600000000	0.8784847687
0.4650000000	0.8847667286
0.4700000000	0.8910523478
0.4750000000	0.8973485015
0.4800000000	0.9036808341
0.4850000000	0.9100108036
0.4900000000	0.9163327242
0.4950000000	0.9226654295
0.5000000000	0.9290364651
0.5050000000	0.9354161641
0.5100000000	0.9417928440
0.5150000000	0.9482240000
0.5200000000	0.9546755734
0.5250000000	0.9611301709
0.5300000000	0.9676122142
0.5350000000	0.9741216806
0.5400000000	0.9806542475
0.5450000000	0.9872019731
0.5500000000	0.9938039844
0.5550000000	1.0004037791
0.5600000000	1.0070386276
0.5650000000	1.0137198440
0.5700000000	1.0204374985
0.5750000000	1.0271955849
0.5800000000	1.0340008461
0.5850000000	1.0408550863
0.5900000000	1.0477331715
0.5950000000	1.0546492983
0.6000000000	1.0616351895
0.6050000000	1.0686763647
0.6100000000	1.0757575234
0.6150000000	1.0829175566
0.6200000000	1.0901419624
0.6250000000	1.0974262809
0.6300000000	1.1047715475
0.6350000000	1.1121866584
0.6400000000	1.1196800325
0.6450000000	1.1272394287
0.6500000000	1.1348877037
0.6550000000	1.1426182124
0.6600000000	1.1504215786
0.6650000000	1.1583472931
0.6700000000	1.1663554081
0.6750000000	1.1744613415
0.6800000000	1.1827077435
0.6850000000	1.1910394371
0.6900000000	1.1994872141
0.6950000000	1.2080716097
0.7000000000	1.2167944725
0.7050000000	1.2256345356
0.7100000000	1.2346173719
0.7150000000	1.2437687370
0.7200000000	1.2530714078
0.7250000000	1.2625509734
0.7300000000	1.2722001950
0.7350000000	1.2820535099
0.7400000000	1.2920388925
0.7450000000	1.3022636483

0.7500000000	1.3127319374
0.7550000000	1.3234348276
0.7600000000	1.3343758666
0.7650000000	1.3455776301
0.7700000000	1.3570224634
0.7750000000	1.3687720770
0.7800000000	1.3808186733
0.7850000000	1.3931851657
0.7900000000	1.4059181987
0.7950000000	1.4189935908
0.8000000000	1.4324744718
0.8050000000	1.4463434565
0.8100000000	1.4606864609
0.8150000000	1.4755171294
0.8200000000	1.4908662298
0.8250000000	1.5067385910
0.8300000000	1.5232072977
0.8350000000	1.5402492456
0.8400000000	1.5580305423
0.8450000000	1.5765030244
0.8500000000	1.5957945331
0.8550000000	1.6159829397
0.8600000000	1.6370451795
0.8650000000	1.6591957629
0.8700000000	1.6824261396
0.8750000000	1.7069650389
0.8800000000	1.7329242010
0.8850000000	1.7603747265
0.8900000000	1.7895228836
0.8950000000	1.8205305744
0.9000000000	1.8535955352
0.9050000000	1.8890943947
0.9100000000	1.9274249817
0.9150000000	1.9687191365
0.9200000000	2.0137419218
0.9250000000	2.0627960997
0.9300000000	2.1168695111
0.9350000000	2.1764907373
0.9400000000	2.2432781294
0.9450000000	2.3189100470
0.9500000000	2.4046801021
0.9550000000	2.5040309977
0.9600000000	2.6211846055
0.9650000000	2.7613324060
0.9700000000	2.9351136170
0.9750000000	3.1571361427
0.9800000000	3.4568078037
0.9850000000	3.8926745620
0.9900000000	4.6203755888
0.9950000000	6.2603137694

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

$f_z(z), F_z(z)$



Coefficient

Mathematical Mean:	2.00072
Geometrical Mean :	0.70977
Harmonic Mean :	0.23211
Variance :	80.02283
S.D. :	8.94555
Skewed Coef. :	506.38152
Kurtosis Coef. :	960388.42588
MAD :	2.10887
Range :	24285.34935
Mid_range :	12142.67469
Median :	0.72315
Q1 :	0.28059
Q2 :	0.72315
Q3 :	1.83102
IQR :	1.55044
C.V. :	4.47117

the critical value table

		significant level		
value	0.995	0.99	0.975	0.95
	0.0141833713	0.0218571330	0.0401757378	0.0662626803

		significant level		
value	0.05	0.025	0.01	0.005
	7.1280938139	11.2952685364	19.6900800499	29.2092294645

Note: the critical value table

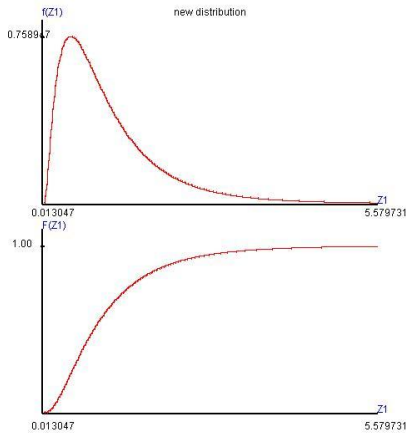
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0.0150000000	0.0284543892
0.0200000000	0.0344919175
0.0250000000	0.0401757378
0.0300000000	0.0456414193
0.0350000000	0.0509432825
0.0400000000	0.0561248650
0.0450000000	0.0612157662
0.0500000000	0.0662626803
0.0550000000	0.0712577941
0.0600000000	0.0762020079
0.0650000000	0.0811154262
0.0700000000	0.0860152246
0.0750000000	0.0909172460
0.0800000000	0.0958272818
0.0850000000	0.1007214737
0.0900000000	0.1056308014
0.0950000000	0.1105468604
0.1000000000	0.1154734857
0.1050000000	0.1204052858
0.1100000000	0.1253586347
0.1150000000	0.1303305994
0.1200000000	0.1353463005
0.1250000000	0.1403859918
0.1300000000	0.1454549343
0.1350000000	0.1505723691
0.1400000000	0.1557230979
0.1450000000	0.1608960191
0.1500000000	0.1661088719
0.1550000000	0.1713544968
0.1600000000	0.1766535791
0.1650000000	0.1819943381
0.1700000000	0.1873633921
0.1750000000	0.1927890946
0.1800000000	0.1982512523
0.1850000000	0.2037665271
0.1900000000	0.2093319169
0.1950000000	0.2149491397
0.2000000000	0.2206159652
0.2050000000	0.2263336646
0.2100000000	0.2321190675
0.2150000000	0.2379617566
0.2200000000	0.2438604861
0.2250000000	0.2498305453
0.2300000000	0.2558496890
0.2350000000	0.2619506676
0.2400000000	0.2681008570
0.2450000000	0.2743148829
0.2500000000	0.2805870501
0.2550000000	0.2869186651
0.2600000000	0.2933306642
0.2650000000	0.2998175134
0.2700000000	0.3063633422
0.2750000000	0.3129824330
0.2800000000	0.3196816792
0.2850000000	0.3264644288
0.2900000000	0.3333281644
0.2950000000	0.3402817552
0.3000000000	0.3473193574
0.3050000000	0.3544487012
0.3100000000	0.3616706980
0.3150000000	0.3689450918
0.3200000000	0.3763280459
0.3250000000	0.3838320011
0.3300000000	0.3914025854
0.3350000000	0.3990835321
0.3400000000	0.4068475607
0.3450000000	0.4147195139
0.3500000000	0.4226833641
0.3550000000	0.4307558923
0.3600000000	0.4389375153
0.3650000000	0.4472342920
0.3700000000	0.4556321501

0.3750000000	0.4641476991
0.3800000000	0.4727719344
0.3850000000	0.4815141525
0.3900000000	0.4903605241
0.3950000000	0.4993400399
0.4000000000	0.5084961613
0.4050000000	0.5177614275
0.4100000000	0.5271388895
0.4150000000	0.5366593160
0.4200000000	0.5463493285
0.4250000000	0.5561682606
0.4300000000	0.5661271536
0.4350000000	0.5762456936
0.4400000000	0.5864874278
0.4450000000	0.5969402373
0.4500000000	0.6075210937
0.4550000000	0.6182810696
0.4600000000	0.6292173669
0.4650000000	0.6403170002
0.4700000000	0.6515487600
0.4750000000	0.6630064787
0.4800000000	0.6746080637
0.4850000000	0.6864526881
0.4900000000	0.6984827179
0.4950000000	0.7107313451
0.5000000000	0.7231536540
0.5050000000	0.7358091323
0.5100000000	0.7487082796
0.5150000000	0.7618176482
0.5200000000	0.7751316096
0.5250000000	0.7887042482
0.5300000000	0.8025267149
0.5350000000	0.8166236091
0.5400000000	0.8309420835
0.5450000000	0.8455201363
0.5500000000	0.8604260672
0.5550000000	0.8755549261
0.5600000000	0.8909788593
0.5650000000	0.9067129474
0.5700000000	0.9227385673
0.5750000000	0.9390172459
0.5800000000	0.9557040532
0.5850000000	0.9727287224
0.5900000000	0.9900849408
0.5950000000	1.0078797913
0.6000000000	1.0260180369
0.6050000000	1.0445700431
0.6100000000	1.0634198166
0.6150000000	1.0826449752
0.6200000000	1.1023753667
0.6250000000	1.1225123670
0.6300000000	1.1431094240
0.6350000000	1.1641392879
0.6400000000	1.1856481452
0.6450000000	1.2076413961
0.6500000000	1.2302222033
0.6550000000	1.2533635736
0.6600000000	1.2770783088
0.6650000000	1.3013428091
0.6700000000	1.3261291295
0.6750000000	1.3516659718
0.6800000000	1.3777161695
0.6850000000	1.4044669016
0.6900000000	1.4320240174
0.6950000000	1.4603158018
0.7000000000	1.4893805546
0.7050000000	1.5192461177
0.7100000000	1.5500042757
0.7150000000	1.5816566092
0.7200000000	1.6140704530
0.7250000000	1.6475694281
0.7300000000	1.6820909251
0.7350000000	1.7176435894
0.7400000000	1.7542922203
0.7450000000	1.7920796838

0.7500000000	1.8310222119
0.7550000000	1.8714197243
0.7600000000	1.9131380092
0.7650000000	1.9562930083
0.7700000000	2.0008750088
0.7750000000	2.0471231462
0.7800000000	2.0950253319
0.7850000000	2.1447705892
0.7900000000	2.1964235494
0.7950000000	2.2501403964
0.8000000000	2.3059562634
0.8050000000	2.3639847190
0.8100000000	2.4243737007
0.8150000000	2.4874615320
0.8200000000	2.5532089462
0.8250000000	2.6221615247
0.8300000000	2.6941167705
0.8350000000	2.7694798100
0.8400000000	2.8487924936
0.8450000000	2.9318719717
0.8500000000	3.0194595465
0.8550000000	3.1116913443
0.8600000000	3.2092011045
0.8650000000	3.3124872766
0.8700000000	3.4219282012
0.8750000000	3.5383349518
0.8800000000	3.6623384996
0.8850000000	3.7949120225
0.8900000000	3.9369190353
0.8950000000	4.0892086170
0.9000000000	4.2525991179
0.9050000000	4.4300507918
0.9100000000	4.6219368597
0.9150000000	4.8313647890
0.9200000000	5.0611914517
0.9250000000	5.3144751778
0.9300000000	5.5956763350
0.9350000000	5.9095133621
0.9400000000	6.2630936934
0.9450000000	6.6653921287
0.9500000000	7.1280938139
0.9550000000	7.6675716057
0.9600000000	8.3085339282
0.9650000000	9.0845522738
0.9700000000	10.0486902242
0.9750000000	11.2952685364
0.9800000000	12.9903060725
0.9850000000	15.4885522395
0.9900000000	19.6900800499
0.9950000000	29.2092294645

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

$f_z(z), F_z(z)$



Coefficient

Mathematical Mean:	1.11570
Geometrical Mean :	0.82198
Harmonic Mean :	0.57647
Variance :	0.93617
S.D. :	0.96756
Skewed Coef. :	3.37286
Kurtosis Coef. :	38.28064
MAD :	0.66335
Range :	72.27695
Mid_range :	36.14078
Median :	0.85551
Q1 :	0.49012
Q2 :	0.85551
Q3 :	1.43693
IQR :	0.94681
C.V. :	0.86722

the critical value table

		significant level			
value	0.995	0.99	0.975	0.95	
	0.0815705508	0.1051912620	0.1511509049	0.2044174325	
		significant level			
value	0.05	0.025	0.01	0.005	
	2.8738723151	3.5837492043	4.6551785130	5.5904850274	

Note: the critical value table

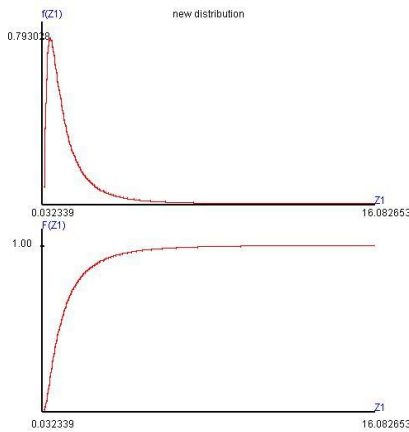
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0.0100000000	0.1051912620
0.0150000000	0.1229388519
0.0200000000	0.1379046531
0.0250000000	0.1511509049
0.0300000000	0.1632303161
0.0350000000	0.1744206349
0.0400000000	0.1849533786
0.0450000000	0.1948988230
0.0500000000	0.2044174325
0.0550000000	0.2136264452
0.0600000000	0.2225282956
0.0650000000	0.2311469570
0.0700000000	0.2395418997
0.0750000000	0.2477487398
0.0800000000	0.2557485605
0.0850000000	0.2636595504
0.0900000000	0.2714094598
0.0950000000	0.2790251483
0.1000000000	0.2865230672
0.1050000000	0.2939549265
0.1100000000	0.3012876253
0.1150000000	0.3085211406
0.1200000000	0.3156637482
0.1250000000	0.3227133372
0.1300000000	0.3297101938
0.1350000000	0.3366796987
0.1400000000	0.3435903469
0.1450000000	0.3504531688
0.1500000000	0.3572624094
0.1550000000	0.3640659676
0.1600000000	0.3708154795
0.1650000000	0.3775439194
0.1700000000	0.3842568601
0.1750000000	0.3909566032
0.1800000000	0.3976366327
0.1850000000	0.4042806141
0.1900000000	0.4109205086
0.1950000000	0.4175217230
0.2000000000	0.4241471406
0.2050000000	0.4307588873
0.2100000000	0.4373749311
0.2150000000	0.4439602370
0.2200000000	0.4505579213
0.2250000000	0.4571372634
0.2300000000	0.4637201261
0.2350000000	0.4703083232
0.2400000000	0.4768938016
0.2450000000	0.4835093969
0.2500000000	0.4901225807
0.2550000000	0.4967485593
0.2600000000	0.5033542166
0.2650000000	0.5099686220
0.2700000000	0.5166003454
0.2750000000	0.5232368672
0.2800000000	0.5299011163
0.2850000000	0.5365527145
0.2900000000	0.5432593084
0.2950000000	0.5499880599
0.3000000000	0.5567234299
0.3050000000	0.5634890532
0.3100000000	0.5702839642
0.3150000000	0.5770969695
0.3200000000	0.5839175521
0.3250000000	0.5907342253
0.3300000000	0.5976317745
0.3350000000	0.6045111674
0.3400000000	0.6114209676
0.3450000000	0.6183548804
0.3500000000	0.6253335108
0.3550000000	0.6323938466
0.3600000000	0.6394343711
0.3650000000	0.6465217020
0.3700000000	0.6536651490

0.3750000000	0.6608325415
0.3800000000	0.6680436188
0.3850000000	0.6752808919
0.3900000000	0.6825893837
0.3950000000	0.6899204320
0.4000000000	0.6972940584
0.4050000000	0.7046834861
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0.4200000000	0.7271481598
0.4250000000	0.7347700897
0.4300000000	0.7424134796
0.4350000000	0.7500925289
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0.4450000000	0.7656278274
0.4500000000	0.7734985451
0.4550000000	0.7814160694
0.4600000000	0.7893909691
0.4650000000	0.7974400788
0.4700000000	0.8055603603
0.4750000000	0.8137500034
0.4800000000	0.8219758265
0.4850000000	0.8302531667
0.4900000000	0.8385896565
0.4950000000	0.8470188382
0.5000000000	0.8555091663
0.5050000000	0.8641067879
0.5100000000	0.8727711725
0.5150000000	0.8815414429
0.5200000000	0.8903668384
0.5250000000	0.8993033746
0.5300000000	0.9082768800
0.5350000000	0.9173129094
0.5400000000	0.9264580302
0.5450000000	0.9356897785
0.5500000000	0.9450133764
0.5550000000	0.9544380204
0.5600000000	0.9640054705
0.5650000000	0.9736351136
0.5700000000	0.9833444042
0.5750000000	0.9931976744
0.5800000000	1.0030945726
0.5850000000	1.0131645187
0.5900000000	1.0233173509
0.5950000000	1.0335810905
0.6000000000	1.0439721650
0.6050000000	1.0545217055
0.6100000000	1.0651882554
0.6150000000	1.0760118170
0.6200000000	1.0869390976
0.6250000000	1.0980205676
0.6300000000	1.1092617285
0.6350000000	1.1206604282
0.6400000000	1.1321727674
0.6450000000	1.1437822323
0.6500000000	1.1555430983
0.6550000000	1.1675665714
0.6600000000	1.1797393170
0.6650000000	1.1921108002
0.6700000000	1.2046401382
0.6750000000	1.2173983682
0.6800000000	1.2303408861
0.6850000000	1.2434944523
0.6900000000	1.2568586524
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0.7100000000	1.3125401856
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0.7300000000	1.3722608119
0.7350000000	1.3879316470
0.7400000000	1.4039037275
0.7450000000	1.4202328092

0.7500000000	1.4369318973
0.7550000000	1.4538599245
0.7600000000	1.4711451384
0.7650000000	1.4887866331
0.7700000000	1.5068791492
0.7750000000	1.5253810407
0.7800000000	1.5443282916
0.7850000000	1.5637527568
0.7900000000	1.5836004774
0.7950000000	1.6040030292
0.8000000000	1.6249067015
0.8050000000	1.6464058873
0.8100000000	1.6684862354
0.8150000000	1.6911766810
0.8200000000	1.7144612768
0.8250000000	1.7384717196
0.8300000000	1.7633104021
0.8350000000	1.7888296658
0.8400000000	1.8152440415
0.8450000000	1.8425892865
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0.8800000000	2.0655187682
0.8850000000	2.1030680495
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0.9050000000	2.2738823074
0.9100000000	2.3225549950
0.9150000000	2.3745303437
0.9200000000	2.4300504767
0.9250000000	2.4895286366
0.9300000000	2.5538342831
0.9350000000	2.6230499491
0.9400000000	2.6988287292
0.9450000000	2.7818262153
0.9500000000	2.8738723151
0.9550000000	2.9774065314
0.9600000000	3.0945803066
0.9650000000	3.2297517087
0.9700000000	3.3892515241
0.9750000000	3.5837492043
0.9800000000	3.8304258589
0.9850000000	4.1607711339
0.9900000000	4.6551785130
0.9950000000	5.5904850274

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

$f_z(z), F_z(z)$



Coefficient

Mathematical Mean:	1.28554
Geometrical Mean :	0.81155
Harmonic Mean :	0.50538
Variance :	2.55965
S.D. :	1.59989
Skewed Coef. :	6.49391
Kurtosis Coef. :	139.27165
MAD :	0.94323
Range :	180.90063
Mid_range :	90.45167
Median :	0.81715
Q1 :	0.42834
Q2 :	0.81715
Q3 :	1.54951
IQR :	1.12117
C.V. :	1.24452

the critical value table

		significant level			
value	0.995	0.99	0.975	0.95	
	0.0631883213	0.0821116301	0.1199074121	0.1649886744	

		significant level			
value	0.05	0.025	0.01	0.005	
	3.8980977449	5.2767107851	7.5331015345	9.6215157345	

Note: the critical value table

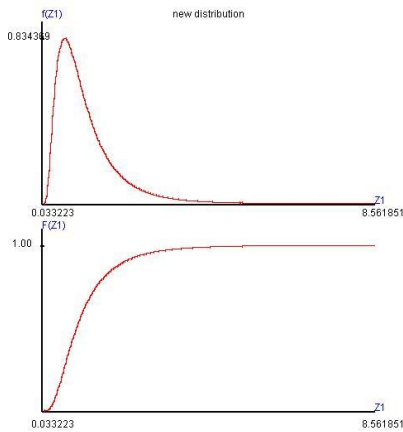
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0.0350000000	0.1394041938
0.0400000000	0.1483120366
0.0450000000	0.1567942550
0.0500000000	0.1649886744
0.0550000000	0.1728550422
0.0600000000	0.1805109027
0.0650000000	0.1879973165
0.0700000000	0.1953251301
0.0750000000	0.2024992496
0.0800000000	0.2095505514
0.0850000000	0.2164881299
0.0900000000	0.2233632409
0.0950000000	0.2301344089
0.1000000000	0.2368526248
0.1050000000	0.2434539124
0.1100000000	0.2500497018
0.1150000000	0.2565323777
0.1200000000	0.2630034310
0.1250000000	0.2694747683
0.1300000000	0.2758812775
0.1350000000	0.2822635032
0.1400000000	0.2886107647
0.1450000000	0.2949619530
0.1500000000	0.3013128094
0.1550000000	0.3076144296
0.1600000000	0.3139264695
0.1650000000	0.3202482474
0.1700000000	0.3265292443
0.1750000000	0.3328261033
0.1800000000	0.3391244139
0.1850000000	0.3454148584
0.1900000000	0.3517184799
0.1950000000	0.3580475583
0.2000000000	0.3643534636
0.2050000000	0.3706692532
0.2100000000	0.3769945054
0.2150000000	0.3833614424
0.2200000000	0.3897193726
0.2250000000	0.3961252194
0.2300000000	0.4025188106
0.2350000000	0.4089397579
0.2400000000	0.4153756044
0.2450000000	0.4218432263
0.2500000000	0.4283393842
0.2550000000	0.4348785004
0.2600000000	0.4414873311
0.2650000000	0.4480656903
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0.2750000000	0.4613254381
0.2800000000	0.4679876793
0.2850000000	0.4746896309
0.2900000000	0.4814469939
0.2950000000	0.4882285580
0.3000000000	0.4950596362
0.3050000000	0.5019400733
0.3100000000	0.5088512411
0.3150000000	0.5157835490
0.3200000000	0.5227821738
0.3250000000	0.5298131520
0.3300000000	0.5369180004
0.3350000000	0.5440785231
0.3400000000	0.5512622888
0.3450000000	0.5585050194
0.3500000000	0.5658161454
0.3550000000	0.5731650740
0.3600000000	0.5805852669
0.3650000000	0.5880296613
0.3700000000	0.5955547232

0.3750000000	0.6031320886
0.3800000000	0.6107829480
0.3850000000	0.6184949557
0.3900000000	0.6262559840
0.3950000000	0.6340685873
0.4000000000	0.6419464213
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0.4700000000	0.7607531070
0.4750000000	0.7699059847
0.4800000000	0.7791321868
0.4850000000	0.7884637943
0.4900000000	0.7979155352
0.4950000000	0.8074473088
0.5000000000	0.8171524174
0.5050000000	0.8269919022
0.5100000000	0.8369188136
0.5150000000	0.8469461564
0.5200000000	0.8571355381
0.5250000000	0.8674057025
0.5300000000	0.8777935239
0.5350000000	0.8883636940
0.5400000000	0.8990516590
0.5450000000	0.9099113890
0.5500000000	0.9208939285
0.5550000000	0.9320281970
0.5600000000	0.9433081307
0.5650000000	0.9547558736
0.5700000000	0.9663703263
0.5750000000	0.9780941533
0.5800000000	0.9899734150
0.5850000000	1.0021001411
0.5900000000	1.0144093519
0.5950000000	1.0268507068
0.6000000000	1.0394827282
0.6050000000	1.0523387144
0.6100000000	1.0654378737
0.6150000000	1.0787422687
0.6200000000	1.0922182797
0.6250000000	1.1059772928
0.6300000000	1.1199010394
0.6350000000	1.1341200854
0.6400000000	1.1485253075
0.6450000000	1.1631152657
0.6500000000	1.1781099053
0.6550000000	1.1933440366
0.6600000000	1.2087960780
0.6650000000	1.2245763685
0.6700000000	1.2406404853
0.6750000000	1.2571032796
0.6800000000	1.2738501744
0.6850000000	1.2908844928
0.6900000000	1.3082530957
0.6950000000	1.3259637729
0.7000000000	1.3440805114
0.7050000000	1.3625780013
0.7100000000	1.3815332301
0.7150000000	1.4008431567
0.7200000000	1.4206487715
0.7250000000	1.4407958752
0.7300000000	1.4614912325
0.7350000000	1.4827526373
0.7400000000	1.5044871882
0.7450000000	1.5267402393

0.7500000000	1.5495063271
0.7550000000	1.5728601178
0.7600000000	1.5968471811
0.7650000000	1.6215346612
0.7700000000	1.6469730445
0.7750000000	1.6729888174
0.7800000000	1.6998336167
0.7850000000	1.7274860027
0.7900000000	1.7559528422
0.7950000000	1.7851888498
0.8000000000	1.8153508852
0.8050000000	1.8465557251
0.8100000000	1.8788236841
0.8150000000	1.9122563681
0.8200000000	1.9466298666
0.8250000000	1.9824784986
0.8300000000	2.0196537383
0.8350000000	2.0582471271
0.8400000000	2.0983500601
0.8450000000	2.1400200715
0.8500000000	2.1833616372
0.8550000000	2.2287023886
0.8600000000	2.2759808481
0.8650000000	2.3259806283
0.8700000000	2.3779309342
0.8750000000	2.4325109181
0.8800000000	2.4903305521
0.8850000000	2.5510161430
0.8900000000	2.6152405484
0.8950000000	2.6833917560
0.9000000000	2.7557793596
0.9050000000	2.8328861811
0.9100000000	2.9152300042
0.9150000000	3.0036555376
0.9200000000	3.0994668281
0.9250000000	3.2030332904
0.9300000000	3.3158680559
0.9350000000	3.4392081690
0.9400000000	3.5757644031
0.9450000000	3.7272459353
0.9500000000	3.8980977449
0.9550000000	4.0918592516
0.9600000000	4.3150302108
0.9650000000	4.5775166054
0.9700000000	4.8906668178
0.9750000000	5.2767107851
0.9800000000	5.7787329861
0.9850000000	6.4680518322
0.9900000000	7.5331015345
0.9950000000	9.6215157345

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

$f_z(z), F_z(z)$



Coefficient

Mathematical Mean:	1.11781
Geometrical Mean :	0.88754
Harmonic Mean :	0.70428
Variance :	0.74274
S.D. :	0.86182
Skewed Coef. :	2.93986
Kurtosis Coef. :	22.86881
MAD :	0.59320
Range :	43.00235
Mid_range :	21.51793
Median :	0.88833
Q1 :	0.56321
Q2 :	0.88833
Q3 :	1.39961
IQR :	0.83640
C.V. :	0.77099

the critical value table

		significant level			
value	0.995	0.99	0.975	0.95	
	0.1515640642	0.1807714067	0.2334845506	0.2903300273	
		significant level			
value	0.05	0.025	0.01	0.005	
	2.7050313596	3.3594602687	4.3329654691	5.1622983512	

Note: the critical value table

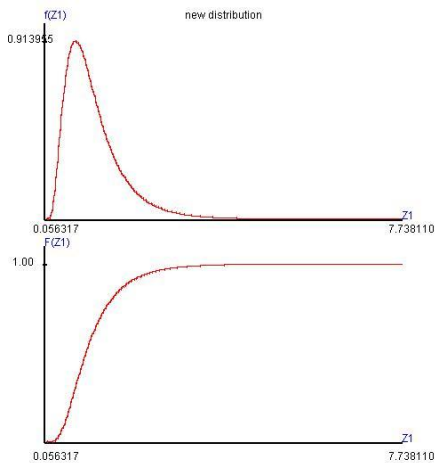
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0.0550000000	0.2998457557
0.0600000000	0.3089603440
0.0650000000	0.3177101519
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0.0750000000	0.3343823673
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0.0850000000	0.3501715474
0.0900000000	0.3578215571
0.0950000000	0.3652973681
0.1000000000	0.3726443641
0.1050000000	0.3798573476
0.1100000000	0.3869420994
0.1150000000	0.3939481091
0.1200000000	0.4008472469
0.1250000000	0.4076310670
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0.1350000000	0.4209504817
0.1400000000	0.4275546412
0.1450000000	0.4340373809
0.1500000000	0.4405274621
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0.1600000000	0.4533137551
0.1650000000	0.4596239525
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0.1750000000	0.4721658726
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0.1900000000	0.4906911007
0.1950000000	0.4968194438
0.2000000000	0.5029628707
0.2050000000	0.5089983254
0.2100000000	0.5150539420
0.2150000000	0.5211276957
0.2200000000	0.5271563581
0.2250000000	0.5331908905
0.2300000000	0.5391978044
0.2350000000	0.5451945769
0.2400000000	0.5511815353
0.2450000000	0.5572155182
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0.2550000000	0.5691579095
0.2600000000	0.5751623368
0.2650000000	0.5811486119
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0.2750000000	0.5931871931
0.2800000000	0.5992129282
0.2850000000	0.6052444982
0.2900000000	0.6112510211
0.2950000000	0.6173098578
0.3000000000	0.6233648673
0.3050000000	0.6294391531
0.3100000000	0.6355320430
0.3150000000	0.6416519990
0.3200000000	0.6477761993
0.3250000000	0.6538492462
0.3300000000	0.6599738244
0.3350000000	0.6661501118
0.3400000000	0.6723728495
0.3450000000	0.6785570332
0.3500000000	0.6848061878
0.3550000000	0.6910605323
0.3600000000	0.6973215437
0.3650000000	0.7036465837
0.3700000000	0.7099739538

0.3750000000	0.7163276667
0.3800000000	0.7227240927
0.3850000000	0.7291690976
0.3900000000	0.7355916226
0.3950000000	0.7421157535
0.4000000000	0.7486486383
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0.4450000000	0.8091878018
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0.4800000000	0.8587576682
0.4850000000	0.8660518558
0.4900000000	0.8734045780
0.4950000000	0.8808165373
0.5000000000	0.8883310682
0.5050000000	0.8958712953
0.5100000000	0.9034508360
0.5150000000	0.9111484655
0.5200000000	0.9188708189
0.5250000000	0.9266782785
0.5300000000	0.9345482971
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0.6350000000	1.1208813221
0.6400000000	1.1309353154
0.6450000000	1.1411414729
0.6500000000	1.1515410666
0.6550000000	1.1620967621
0.6600000000	1.1727704653
0.6650000000	1.1836660760
0.6700000000	1.1947068940
0.6750000000	1.2059566265
0.6800000000	1.2173640577
0.6850000000	1.2288804466
0.6900000000	1.2405989210
0.6950000000	1.2525888123
0.7000000000	1.2647792395
0.7050000000	1.2771646707
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0.7150000000	1.3025383239
0.7200000000	1.3155602780
0.7250000000	1.3289236574
0.7300000000	1.3425240927
0.7350000000	1.3563963591
0.7400000000	1.3705319751
0.7450000000	1.3849678795

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0.7700000000	1.4617721146
0.7750000000	1.4782725342
0.7800000000	1.4952293048
0.7850000000	1.5125571808
0.7900000000	1.5302042179
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0.8000000000	1.5671855729
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0.8100000000	1.6061239095
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0.8200000000	1.6473101146
0.8250000000	1.6689512518
0.8300000000	1.6911284108
0.8350000000	1.7140534388
0.8400000000	1.7378872235
0.8450000000	1.7625263568
0.8500000000	1.7880327312
0.8550000000	1.8144545883
0.8600000000	1.8420883192
0.8650000000	1.8706740012
0.8700000000	1.9004735603
0.8750000000	1.9315168634
0.8800000000	1.9639378770
0.8850000000	1.9978462042
0.8900000000	2.0336346933
0.8950000000	2.0714928885
0.9000000000	2.1112302849
0.9050000000	2.1533723563
0.9100000000	2.1983445240
0.9150000000	2.2459983324
0.9200000000	2.2967967555
0.9250000000	2.3514451425
0.9300000000	2.4102857978
0.9350000000	2.4743429359
0.9400000000	2.5439586363
0.9450000000	2.6201533834
0.9500000000	2.7050313596
0.9550000000	2.8002544257
0.9600000000	2.9083333639
0.9650000000	3.0330663458
0.9700000000	3.1801346644
0.9750000000	3.3594602687
0.9800000000	3.5848247693
0.9850000000	3.8864541168
0.9900000000	4.3329654691
0.9950000000	5.1622983512

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

$f_z(z), F_z(z)$



Coefficient

Mathematical Mean:	1.07413
Geometrical Mean :	0.91926
Harmonic Mean :	0.78725
Variance :	0.42751
S.D. :	0.65384
Skewed Coef. :	2.16380
Kurtosis Coef. :	12.76664
MAD :	0.47157
Range :	24.00823
Mid_range :	12.04560
Median :	0.91852
Q1 :	0.63213
Q2 :	0.91852
Q3 :	1.33513
IQR :	0.70300
C.V. :	0.60872

the critical value table

	significant level			
value	0.995	0.99	0.975	0.95
	0.2181019983	0.2512723170	0.3088224279	0.3683329114
	significant level			
value	0.05	0.025	0.01	0.005
	2.3001747213	2.7518571706	3.3982205471	3.9262131816

Note: the critical value table

0.0050000000	0.2181019983
0.0100000000	0.2512723170
0.0150000000	0.2744626848
0.0200000000	0.2930329893
0.0250000000	0.3088224279
0.0300000000	0.3228219029
0.0350000000	0.3355322871
0.0400000000	0.3471780125
0.0450000000	0.3580938333
0.0500000000	0.3683329114
0.0550000000	0.3781315065
0.0600000000	0.3874037312
0.0650000000	0.3963245637
0.0700000000	0.4049426001
0.0750000000	0.4132311588
0.0800000000	0.4213077812
0.0850000000	0.4291345478
0.0900000000	0.4366642868
0.0950000000	0.4440362735
0.1000000000	0.4512456437
0.1050000000	0.4583351369
0.1100000000	0.4652567938
0.1150000000	0.4721149113
0.1200000000	0.4788233141
0.1250000000	0.4853880071
0.1300000000	0.4919177495
0.1350000000	0.4983020115
0.1400000000	0.5045722327
0.1450000000	0.5108426061
0.1500000000	0.5170377202
0.1550000000	0.5231604168
0.1600000000	0.5292464147
0.1650000000	0.5352720113
0.1700000000	0.5411982639
0.1750000000	0.5471169835
0.1800000000	0.5530105082
0.1850000000	0.5588499769
0.1900000000	0.5646172516
0.1950000000	0.5703969884
0.2000000000	0.5761021588
0.2050000000	0.5818037885
0.2100000000	0.5874764725
0.2150000000	0.5931422283
0.2200000000	0.5987473836
0.2250000000	0.6043707225
0.2300000000	0.6099405218
0.2350000000	0.6154862616
0.2400000000	0.6210473501
0.2450000000	0.6266090223
0.2500000000	0.6321253809
0.2550000000	0.6376416353
0.2600000000	0.6431441874
0.2650000000	0.6486263038
0.2700000000	0.6541339739
0.2750000000	0.6595917602
0.2800000000	0.6650589004
0.2850000000	0.6705345602
0.2900000000	0.6760001932
0.2950000000	0.6814360008
0.3000000000	0.6869156784
0.3050000000	0.6924041129
0.3100000000	0.6978985862
0.3150000000	0.7033918075
0.3200000000	0.7089078216
0.3250000000	0.7144177096
0.3300000000	0.7199295292
0.3350000000	0.7254520309
0.3400000000	0.7309271250
0.3450000000	0.7364913715
0.3500000000	0.7420365242
0.3550000000	0.7476282786
0.3600000000	0.7532033902
0.3650000000	0.7587909026
0.3700000000	0.7643783039

0.3750000000	0.7699947276
0.3800000000	0.7756244810
0.3850000000	0.7812465315
0.3900000000	0.7869563864
0.3950000000	0.7926653512
0.4000000000	0.7983512039
0.4050000000	0.8040881779
0.4100000000	0.8098422437
0.4150000000	0.8156107812
0.4200000000	0.8214275311
0.4250000000	0.8272591403
0.4300000000	0.8331152064
0.4350000000	0.8390119275
0.4400000000	0.8449441844
0.4450000000	0.8508983426
0.4500000000	0.8568693646
0.4550000000	0.8628536562
0.4600000000	0.8689713526
0.4650000000	0.8750359305
0.4700000000	0.8811535025
0.4750000000	0.8872713618
0.4800000000	0.8934441094
0.4850000000	0.8996542080
0.4900000000	0.9058703938
0.4950000000	0.9121819827
0.5000000000	0.9185224797
0.5050000000	0.9249084477
0.5100000000	0.9313254088
0.5150000000	0.9378343989
0.5200000000	0.9443775426
0.5250000000	0.9509667717
0.5300000000	0.9575853931
0.5350000000	0.9643057537
0.5400000000	0.9710655881
0.5450000000	0.9778982890
0.5500000000	0.9847383750
0.5550000000	0.9916684259
0.5600000000	0.9986881755
0.5650000000	1.0057216380
0.5700000000	1.0127845066
0.5750000000	1.0199997695
0.5800000000	1.0272521623
0.5850000000	1.0345336193
0.5900000000	1.0419412253
0.5950000000	1.0494050993
0.6000000000	1.0569946376
0.6050000000	1.0646102254
0.6100000000	1.0722688891
0.6150000000	1.0800786438
0.6200000000	1.0878992637
0.6250000000	1.0958206990
0.6300000000	1.1038702301
0.6350000000	1.1120047541
0.6400000000	1.1202705306
0.6450000000	1.1286996183
0.6500000000	1.1371550754
0.6550000000	1.1457136254
0.6600000000	1.1543754573
0.6650000000	1.1631525470
0.6700000000	1.1720402000
0.6750000000	1.1810442259
0.6800000000	1.1901843599
0.6850000000	1.1994593218
0.6900000000	1.2088985676
0.6950000000	1.2183815159
0.7000000000	1.2281159540
0.7050000000	1.2380304218
0.7100000000	1.2481057262
0.7150000000	1.2583430589
0.7200000000	1.2687432396
0.7250000000	1.2793258117
0.7300000000	1.2901209250
0.7350000000	1.3010258879
0.7400000000	1.3122439195
0.7450000000	1.3235653046

0.7500000000	1.3351270312
0.7550000000	1.3469556556
0.7600000000	1.3589878991
0.7650000000	1.3712976662
0.7700000000	1.3838466208
0.7750000000	1.3967040481
0.7800000000	1.4097950604
0.7850000000	1.4232395984
0.7900000000	1.4369366148
0.7950000000	1.4509793643
0.8000000000	1.4653650627
0.8050000000	1.4801693600
0.8100000000	1.4953797347
0.8150000000	1.5109602291
0.8200000000	1.5269096818
0.8250000000	1.5434848254
0.8300000000	1.5605221669
0.8350000000	1.5780520254
0.8400000000	1.5960128020
0.8450000000	1.6147523299
0.8500000000	1.6340661314
0.8550000000	1.6540386712
0.8600000000	1.6746001916
0.8650000000	1.6961489080
0.8700000000	1.7184383264
0.8750000000	1.7416029508
0.8800000000	1.7655988635
0.8850000000	1.7909259919
0.8900000000	1.8173912780
0.8950000000	1.8451356913
0.9000000000	1.8742197664
0.9050000000	1.9047603272
0.9100000000	1.9373350898
0.9150000000	1.9720910708
0.9200000000	2.0086708410
0.9250000000	2.0479791479
0.9300000000	2.0902336086
0.9350000000	2.1360684952
0.9400000000	2.1858396255
0.9450000000	2.2402480127
0.9500000000	2.3001747213
0.9550000000	2.3671869224
0.9600000000	2.4428594429
0.9650000000	2.5286327595
0.9700000000	2.6302836419
0.9750000000	2.7518571706
0.9800000000	2.9031735014
0.9850000000	3.1025895084
0.9900000000	3.3982205471
0.9950000000	3.9262131816