

2) The two correlation normal population variances test statistic.

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

$$X_{11}, \dots, X_{1n} \stackrel{id}{\sim} N(\mu_1 = 0, \sigma_1^2 = 1), X_{21}, \dots, X_{2n} \stackrel{id}{\sim} N(\mu_2 = 0, \sigma_2^2 = 1),$$

$$X_{1i} \sim N(\mu_1 = 0, \sigma_1^2 = 1),$$

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

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

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

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

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

$f_Z(z), F_Z(z)$	Coefficient
	Mathematical Mean: 1.99076 Geometrical Mean : 0.99997 Harmonic Mean : 0.50185 Variance : 109.63159 S.D. : 10.47051 Skewed Coef. : 3842.29503 Kurtosis Coef. : 23728193.13744 MAD : 1.76407 Range : 66096.02508 Mid_range : 33048.01255 Median : 1.00005 Q1 : 0.48611 Q2 : 1.00005 Q3 : 2.05721 IQR : 1.57110 C.V. : 5.25956

the critical value table

	significant level			
value	0.995	0.99	0.975	0.95
	0.0435925383	0.0631781412	0.1049442475	0.1576528738

	significant level			
value	0.05	0.025	0.01	0.005
	6.3414741061	9.5282181388	15.8237421462	22.9488086365

Note: the critical value table

0.005000000	0.0435925383
0.010000000	0.0631781412
0.015000000	0.0788482666
0.020000000	0.0925264116
0.025000000	0.1049442475
0.030000000	0.1165389292
0.035000000	0.1274662149
0.040000000	0.1378798909
0.045000000	0.1479368096
0.050000000	0.1576528738
0.055000000	0.1670859381
0.060000000	0.1762911091
0.065000000	0.1853279716
0.070000000	0.1941615904
0.075000000	0.2028573610
0.080000000	0.2114449609
0.085000000	0.2199504784
0.090000000	0.2283463642
0.095000000	0.2366699700
0.100000000	0.2449151065
0.105000000	0.2530777883
0.110000000	0.2611946627
0.115000000	0.2692718075
0.120000000	0.2773297598
0.125000000	0.2853470824
0.130000000	0.2933337122
0.135000000	0.3012913834
0.140000000	0.3092581050
0.145000000	0.3171678630
0.150000000	0.3250560142
0.155000000	0.3329677828
0.160000000	0.3408715650
0.165000000	0.3487939577
0.170000000	0.3567115537
0.175000000	0.3646337607
0.180000000	0.3725546187
0.185000000	0.3805023252
0.190000000	0.3884913706
0.195000000	0.3964792565
0.200000000	0.4044931098
0.205000000	0.4125292185
0.210000000	0.4205686907
0.215000000	0.4286468625
0.220000000	0.4367582532
0.225000000	0.4448824692
0.230000000	0.4530656128
0.235000000	0.4612716006
0.240000000	0.4695212028
0.245000000	0.4778023728
0.250000000	0.4861075870
0.255000000	0.4944984312
0.260000000	0.5028930859
0.265000000	0.5113485988
0.270000000	0.5198396216
0.275000000	0.5283910232
0.280000000	0.5370162749
0.285000000	0.5456776627
0.290000000	0.5543754883
0.295000000	0.5631638954
0.300000000	0.5720192359
0.305000000	0.5809079191
0.310000000	0.5898890873
0.315000000	0.5989275482
0.320000000	0.6080379243
0.325000000	0.6171947011
0.330000000	0.6264399925
0.335000000	0.6357645670
0.340000000	0.6451620825
0.345000000	0.6546186462
0.350000000	0.6641481093
0.355000000	0.6737628703
0.360000000	0.6834737788
0.365000000	0.6932757045
0.370000000	0.7031183542

0.3750000000	0.7130751739
0.3800000000	0.7231484425
0.3850000000	0.7333201615
0.3900000000	0.7435877546
0.3950000000	0.7539439617
0.4000000000	0.7643986531
0.4050000000	0.7750000883
0.4100000000	0.7856883282
0.4150000000	0.7964894816
0.4200000000	0.8074068318
0.4250000000	0.8184310312
0.4300000000	0.8295988333
0.4350000000	0.8409001184
0.4400000000	0.8522607602
0.4450000000	0.8638078127
0.4500000000	0.8754524943
0.4550000000	0.8872077125
0.4600000000	0.8991076610
0.4650000000	0.9111800717
0.4700000000	0.9234121402
0.4750000000	0.9357725229
0.4800000000	0.9482638684
0.4850000000	0.9609680129
0.4900000000	0.9737879236
0.4950000000	0.9868307148
0.5000000000	1.0000460860
0.5050000000	1.0134063697
0.5100000000	1.0269281676
0.5150000000	1.0406520865
0.5200000000	1.0545632618
0.5250000000	1.0686641091
0.5300000000	1.0829903671
0.5350000000	1.0975204087
0.5400000000	1.1122462977
0.5450000000	1.1271961405
0.5500000000	1.1423575446
0.5550000000	1.1577813293
0.5600000000	1.1734220628
0.5650000000	1.1893710400
0.5700000000	1.2054583782
0.5750000000	1.2218811544
0.5800000000	1.2385810712
0.5850000000	1.2555216217
0.5900000000	1.2727339757
0.5950000000	1.2902813435
0.6000000000	1.3081526540
0.6050000000	1.3262962669
0.6100000000	1.3447917660
0.6150000000	1.3636547638
0.6200000000	1.3828342334
0.6250000000	1.4023801505
0.6300000000	1.4222292741
0.6350000000	1.4425541774
0.6400000000	1.4632415662
0.6450000000	1.4843358457
0.6500000000	1.5058509997
0.6550000000	1.5277965561
0.6600000000	1.5501906598
0.6650000000	1.5730949168
0.6700000000	1.5964389615
0.6750000000	1.6203477902
0.6800000000	1.6447985164
0.6850000000	1.6697565215
0.6900000000	1.6952349944
0.6950000000	1.7213732590
0.7000000000	1.7481670217
0.7050000000	1.7756342321
0.7100000000	1.8037552577
0.7150000000	1.8325727413
0.7200000000	1.8621363823
0.7250000000	1.8924881967
0.7300000000	1.9236158778
0.7350000000	1.9556333299
0.7400000000	1.9885221216
0.7450000000	2.0222996312

0.750000000	2.0572120105
0.755000000	2.0930983886
0.760000000	2.1300811923
0.765000000	2.1681586105
0.770000000	2.2074208848
0.775000000	2.2479220186
0.780000000	2.2897599806
0.785000000	2.3330275523
0.790000000	2.3778630706
0.795000000	2.4242406098
0.800000000	2.4723300408
0.805000000	2.5221966072
0.810000000	2.5739399933
0.815000000	2.6277748734
0.820000000	2.6840252791
0.825000000	2.7426150610
0.830000000	2.8034167989
0.835000000	2.8669824802
0.840000000	2.9334157649
0.845000000	3.0029201347
0.850000000	3.0762034473
0.855000000	3.1529919067
0.860000000	3.2336833427
0.865000000	3.3188262352
0.870000000	3.4090818187
0.875000000	3.5044007618
0.880000000	3.6055213500
0.885000000	3.7131823650
0.890000000	3.8278496680
0.895000000	3.9505283541
0.900000000	4.0822517692
0.905000000	4.2241999606
0.910000000	4.3779123753
0.915000000	4.5445853657
0.920000000	4.7267015036
0.925000000	4.9262847836
0.930000000	5.1475498119
0.935000000	5.3935662788
0.940000000	5.6696474428
0.945000000	5.9830848133
0.950000000	6.3414741061
0.955000000	6.7579460663
0.960000000	7.2506020729
0.965000000	7.8441461356
0.970000000	8.5802843861
0.975000000	9.5282181388
0.980000000	10.8066394511
0.985000000	12.6836768392
0.990000000	15.8237421462
0.995000000	22.9488086365

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

$f_z(z), F_z(z)$	Coefficient
	Mathematical Mean: 1.95997 Geometrical Mean : 0.99994 Harmonic Mean : 0.51047 Variance : 43.15484 S.D. : 6.56923 Skewed Coef. : 456.24712 Kurtosis Coef. : 693889.67817 MAD : 1.71854 Range : 14263.96486 Mid_range : 7131.98248 Median : 1.00000 Q1 : 0.49130 Q2 : 1.00000 Q3 : 2.03501 IQR : 1.54371 C.V. : 3.35170

the critical value table

	significant level			
value	0.995	0.99	0.975	0.95
	0.0448775427	0.0649711681	0.1077158069	0.1612979527

	significant level			
value	0.05	0.025	0.01	0.005
	6.1993333966	9.2905494311	15.4065451730	22.3047520109

Note: the critical value table

0.005000000	0.0448775427
0.010000000	0.0649711681
0.015000000	0.0810375627
0.020000000	0.0950216075
0.025000000	0.1077158069
0.030000000	0.1195321886
0.035000000	0.1306753298
0.040000000	0.1412849620
0.045000000	0.1514651827
0.050000000	0.1612979527
0.055000000	0.1708768851
0.060000000	0.1802245323
0.065000000	0.1893833790
0.070000000	0.1983276187
0.075000000	0.2071483681
0.080000000	0.2158279674
0.085000000	0.2244088540
0.090000000	0.2328774824
0.095000000	0.2412522609
0.100000000	0.2495831355
0.105000000	0.2578118767
0.110000000	0.2659860757
0.115000000	0.2741253284
0.120000000	0.2822461835
0.125000000	0.2903161162
0.130000000	0.2983377140
0.135000000	0.3063511716
0.140000000	0.3143088956
0.145000000	0.3222628133
0.150000000	0.3301892381
0.155000000	0.3381267742
0.160000000	0.3460639266
0.165000000	0.3539892897
0.170000000	0.3619362111
0.175000000	0.3698679198
0.180000000	0.3778132425
0.185000000	0.3857698021
0.190000000	0.3937453529
0.195000000	0.4017261573
0.200000000	0.4097423015
0.205000000	0.4177854325
0.210000000	0.4258477996
0.215000000	0.4339167002
0.220000000	0.4420256632
0.225000000	0.4501664247
0.230000000	0.4583289425
0.235000000	0.4664999770
0.240000000	0.4747324566
0.245000000	0.4829848524
0.250000000	0.4912987480
0.255000000	0.4996261734
0.260000000	0.5080076057
0.265000000	0.5164253453
0.270000000	0.5248883855
0.275000000	0.5334166196
0.280000000	0.5419912310
0.285000000	0.5506041339
0.290000000	0.5592810788
0.295000000	0.5679942099
0.300000000	0.5767445921
0.305000000	0.5856011539
0.310000000	0.5944971978
0.315000000	0.6034655215
0.320000000	0.6124748550
0.325000000	0.6215679079
0.330000000	0.6307623735
0.335000000	0.6399991401
0.340000000	0.6493306942
0.345000000	0.6587253753
0.350000000	0.6681824893
0.355000000	0.6777361781
0.360000000	0.6873469246
0.365000000	0.6970356882
0.370000000	0.7068641947

0.3750000000	0.7167429907
0.3800000000	0.7267022545
0.3850000000	0.7367557121
0.3900000000	0.7469089408
0.3950000000	0.7571639126
0.4000000000	0.7675039511
0.4050000000	0.7779682489
0.4100000000	0.7885324485
0.4150000000	0.7992103158
0.4200000000	0.8099790618
0.4250000000	0.8208916936
0.4300000000	0.8318865651
0.4350000000	0.8429980693
0.4400000000	0.8542604076
0.4450000000	0.8656285584
0.4500000000	0.8771577843
0.4550000000	0.8887729613
0.4600000000	0.9005776254
0.4650000000	0.9124833236
0.4700000000	0.9245625879
0.4750000000	0.9367648501
0.4800000000	0.9490819444
0.4850000000	0.9615850058
0.4900000000	0.9742565140
0.4950000000	0.9870702830
0.5000000000	1.0000020381
0.5050000000	1.0131254221
0.5100000000	1.0264645021
0.5150000000	1.0399749510
0.5200000000	1.0536513293
0.5250000000	1.0675299076
0.5300000000	1.0816012636
0.5350000000	1.0958662143
0.5400000000	1.1103344092
0.5450000000	1.1250528407
0.5500000000	1.1399826038
0.5550000000	1.1550948417
0.5600000000	1.1704567637
0.5650000000	1.1861297495
0.5700000000	1.2019736892
0.5750000000	1.2181076942
0.5800000000	1.2344741560
0.5850000000	1.2510996118
0.5900000000	1.2679899778
0.5950000000	1.2851791243
0.6000000000	1.3026801824
0.6050000000	1.3204729103
0.6100000000	1.3385474619
0.6150000000	1.3569795042
0.6200000000	1.3758002768
0.6250000000	1.3949368409
0.6300000000	1.4144458183
0.6350000000	1.4342635684
0.6400000000	1.4545258164
0.6450000000	1.4751194647
0.6500000000	1.4961648966
0.6550000000	1.5176196404
0.6600000000	1.5395061145
0.6650000000	1.5619154007
0.6700000000	1.5847776374
0.6750000000	1.6081527063
0.6800000000	1.6320141587
0.6850000000	1.6564898697
0.6900000000	1.6814143726
0.6950000000	1.7070077119
0.7000000000	1.7331500099
0.7050000000	1.7600344438
0.7100000000	1.7874436327
0.7150000000	1.8156232537
0.7200000000	1.8445278627
0.7250000000	1.8741858115
0.7300000000	1.9046392572
0.7350000000	1.9359031494
0.7400000000	1.9680169696
0.7450000000	2.0009703495

0.7500000000	2.0350075766
0.7550000000	2.0699415624
0.7600000000	2.1059881303
0.7650000000	2.1432255490
0.7700000000	2.1815202310
0.7750000000	2.2209998150
0.7800000000	2.2617567678
0.7850000000	2.3039063918
0.7900000000	2.3475743288
0.7950000000	2.3929093630
0.8000000000	2.4398162463
0.8050000000	2.4884473062
0.8100000000	2.5388929899
0.8150000000	2.5912158248
0.8200000000	2.6458148635
0.8250000000	2.7025768947
0.8300000000	2.7619113741
0.8350000000	2.8235909893
0.8400000000	2.8884621787
0.8450000000	2.9561824767
0.8500000000	3.0272584256
0.8550000000	3.1019681050
0.8600000000	3.1805346198
0.8650000000	3.2635120845
0.8700000000	3.3507244764
0.8750000000	3.4435792475
0.8800000000	3.5419724927
0.8850000000	3.6468800581
0.8900000000	3.7582758570
0.8950000000	3.8776034481
0.9000000000	4.0055556355
0.9050000000	4.1438255616
0.9100000000	4.2931641038
0.9150000000	4.4556950407
0.9200000000	4.6330546603
0.9250000000	4.8280486183
0.9300000000	5.0423528000
0.9350000000	5.2807347961
0.9400000000	5.5485669716
0.9450000000	5.8521289652
0.9500000000	6.1993333966
0.9550000000	6.6031221407
0.9600000000	7.0796401245
0.9650000000	7.6552237425
0.9700000000	8.3714237487
0.9750000000	9.2905494311
0.9800000000	10.5343257302
0.9850000000	12.3522253552
0.9900000000	15.4065451730
0.9950000000	22.3047520109

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

$f_z(z), F_z(z)$	Coefficient
	Mathematical Mean: 1.91220 Geometrical Mean : 0.99997 Harmonic Mean : 0.52337 Variance : 118.74807 S.D. : 10.89716 Skewed Coef. : 4294.14570 Kurtosis Coef. : 27434737.81406 MAD : 1.64752 Range : 71309.40720 Mid_range : 35654.70364 Median : 1.00001 Q1 : 0.50014 Q2 : 1.00001 Q3 : 1.99903 IQR : 1.49888 C.V. : 5.69875

the critical value table

	significant level			
value	0.995	0.99	0.975	0.95
	0.0470564727	0.0679797415	0.1123147541	0.1675352581

	significant level			
value	0.05	0.025	0.01	0.005
	5.9710637309	8.9081365361	14.7083187221	21.2527628325

Note: the critical value table

0.005000000	0.0470564727
0.010000000	0.0679797415
0.015000000	0.0846514514
0.020000000	0.0991514757
0.025000000	0.1123147541
0.030000000	0.1245228031
0.035000000	0.1360036718
0.040000000	0.1469199695
0.045000000	0.1574221853
0.050000000	0.1675352581
0.055000000	0.1773376658
0.060000000	0.1868976780
0.065000000	0.1962634899
0.070000000	0.2054208719
0.075000000	0.2144233700
0.080000000	0.2232660011
0.085000000	0.2320209499
0.090000000	0.2406508961
0.095000000	0.2491763794
0.100000000	0.2576274606
0.105000000	0.2659698136
0.110000000	0.2742821815
0.115000000	0.2825454093
0.120000000	0.2907336922
0.125000000	0.2988863811
0.130000000	0.3070170959
0.135000000	0.3150709072
0.140000000	0.3230996258
0.145000000	0.3311001713
0.150000000	0.3391188209
0.155000000	0.3471055204
0.160000000	0.3551018906
0.165000000	0.3630553303
0.170000000	0.3709953238
0.175000000	0.3789648701
0.180000000	0.3869187489
0.185000000	0.3949008855
0.190000000	0.4028921810
0.195000000	0.4108713102
0.200000000	0.4188665085
0.205000000	0.4268807945
0.210000000	0.4349294761
0.215000000	0.4429883226
0.220000000	0.4510594097
0.225000000	0.4591814041
0.230000000	0.4673053193
0.235000000	0.4754796912
0.240000000	0.4836661583
0.245000000	0.4919025034
0.250000000	0.5001442873
0.255000000	0.5084600237
0.260000000	0.5168006280
0.265000000	0.5251434733
0.270000000	0.5335322566
0.275000000	0.5419534717
0.280000000	0.5504596938
0.285000000	0.5589868897
0.290000000	0.5675861199
0.295000000	0.5762321681
0.300000000	0.5849275453
0.305000000	0.5936957392
0.310000000	0.6024803464
0.315000000	0.6113233441
0.320000000	0.6202383499
0.325000000	0.6292157764
0.330000000	0.6382797152
0.335000000	0.6473605735
0.340000000	0.6565737603
0.345000000	0.6658144378
0.350000000	0.6751422285
0.355000000	0.6845149223
0.360000000	0.6939764308
0.365000000	0.7035173523
0.370000000	0.7131368229

0.3750000000	0.7228716785
0.3800000000	0.7326644324
0.3850000000	0.7425575796
0.3900000000	0.7525415327
0.3950000000	0.7626022930
0.4000000000	0.7727765795
0.4050000000	0.7830393303
0.4100000000	0.7934003104
0.4150000000	0.8038407863
0.4200000000	0.8143911873
0.4250000000	0.8250421142
0.4300000000	0.8358299487
0.4350000000	0.8467159009
0.4400000000	0.8577151660
0.4450000000	0.8688382905
0.4500000000	0.8800660440
0.4550000000	0.8914492194
0.4600000000	0.9029647466
0.4650000000	0.9145987269
0.4700000000	0.9263851616
0.4750000000	0.9382994246
0.4800000000	0.9503385267
0.4850000000	0.9625173586
0.4900000000	0.9748335063
0.4950000000	0.9873098647
0.5000000000	1.0000059497
0.5050000000	1.0128192952
0.5100000000	1.0258147612
0.5150000000	1.0389566949
0.5200000000	1.0522689902
0.5250000000	1.0657352547
0.5300000000	1.0794378468
0.5350000000	1.0932819724
0.5400000000	1.1073636731
0.5450000000	1.1216793555
0.5500000000	1.1361345245
0.5550000000	1.1508632710
0.5600000000	1.1657257872
0.5650000000	1.1808175002
0.5700000000	1.1962170729
0.5750000000	1.2118485334
0.5800000000	1.2277349250
0.5850000000	1.2438459485
0.5900000000	1.2602378140
0.5950000000	1.2769404163
0.6000000000	1.2938799515
0.6050000000	1.3111489007
0.6100000000	1.3286584894
0.6150000000	1.3464935889
0.6200000000	1.3646273817
0.6250000000	1.3831353648
0.6300000000	1.4019941131
0.6350000000	1.4211483899
0.6400000000	1.4406787406
0.6450000000	1.4606035074
0.6500000000	1.4809240054
0.6550000000	1.5016114023
0.6600000000	1.5227240538
0.6650000000	1.5442284414
0.6700000000	1.5662579878
0.6750000000	1.5887815685
0.6800000000	1.6117699727
0.6850000000	1.6352764614
0.6900000000	1.6593621940
0.6950000000	1.6839091547
0.7000000000	1.7091756554
0.7050000000	1.7349320882
0.7100000000	1.7613188131
0.7150000000	1.7883998442
0.7200000000	1.8161984340
0.7250000000	1.8446726697
0.7300000000	1.8738777212
0.7350000000	1.9039357488
0.7400000000	1.9346892759
0.7450000000	1.9664715311

0.750000000	1.9990251204
0.755000000	2.0325794037
0.760000000	2.0670525087
0.765000000	2.1026118030
0.770000000	2.1392708061
0.775000000	2.1770850211
0.780000000	2.2161991031
0.785000000	2.2566799542
0.790000000	2.2985043579
0.795000000	2.3418449130
0.800000000	2.3867330962
0.805000000	2.4330726794
0.810000000	2.4813799334
0.815000000	2.5314857048
0.820000000	2.5838039412
0.825000000	2.6381505853
0.830000000	2.6947329731
0.835000000	2.7538542696
0.840000000	2.8157293041
0.845000000	2.8805080412
0.850000000	2.9483721465
0.855000000	3.0198097313
0.860000000	3.0950461035
0.865000000	3.1740589122
0.870000000	3.2574139735
0.875000000	3.3460342852
0.880000000	3.4398933545
0.885000000	3.5395377454
0.890000000	3.6459700306
0.895000000	3.7602258761
0.900000000	3.8823020610
0.905000000	4.0141494252
0.910000000	4.1569851126
0.915000000	4.3113813109
0.920000000	4.4799052149
0.925000000	4.6650253034
0.930000000	4.8693508565
0.935000000	5.0967010073
0.940000000	5.3519018371
0.945000000	5.6410393452
0.950000000	5.9710637309
0.955000000	6.3546124079
0.960000000	6.8088723263
0.965000000	7.3577011795
0.970000000	8.0352269769
0.975000000	8.9081365361
0.980000000	10.0907887703
0.985000000	11.8145480960
0.990000000	14.7083187221
0.995000000	21.2527628325

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

$f_z(z), F_z(z)$	Coefficient
	Mathematical Mean: 1.83896 Geometrical Mean : 0.99980 Harmonic Mean : 0.54326 Variance : 33.30159 S.D. : 5.77075 Skewed Coef. : 660.21151 Kurtosis Coef. : 1623876.89596 MAD : 1.53854 Range : 17722.10918 Mid_range : 8861.05462 Median : 0.99990 Q1 : 0.51347 Q2 : 0.99990 Q3 : 1.94712 IQR : 1.43365 C.V. : 3.13806

the critical value table

	significant level			
value	0.995	0.99	0.975	0.95
	0.0506089859	0.0728190098	0.1195597425	0.1772672476

	significant level			
value	0.05	0.025	0.01	0.005
	5.6371521050	8.3474385955	13.7068899073	19.7365602697

Note: the critical value table

0.005000000	0.0506089859
0.010000000	0.0728190098
0.015000000	0.0904801333
0.020000000	0.1057644098
0.025000000	0.1195597425
0.030000000	0.1323809162
0.035000000	0.1444286089
0.040000000	0.1558370526
0.045000000	0.1667477687
0.050000000	0.1772672476
0.055000000	0.1874533688
0.060000000	0.1973579415
0.065000000	0.2070039475
0.070000000	0.2164467901
0.075000000	0.2256987231
0.080000000	0.2347935019
0.085000000	0.2437566568
0.090000000	0.2525700509
0.095000000	0.2612627186
0.100000000	0.2699001414
0.105000000	0.2784085989
0.110000000	0.2868691302
0.115000000	0.2952630051
0.120000000	0.3036096905
0.125000000	0.3118732357
0.130000000	0.3200790943
0.135000000	0.3282757569
0.140000000	0.3364262488
0.145000000	0.3445136073
0.150000000	0.3525896994
0.155000000	0.3606337593
0.160000000	0.3686784526
0.165000000	0.3767005031
0.170000000	0.3847228263
0.175000000	0.3927538336
0.180000000	0.4007330304
0.185000000	0.4087399905
0.190000000	0.4167130822
0.195000000	0.4246891126
0.200000000	0.4326911181
0.205000000	0.4407032814
0.210000000	0.4487118907
0.215000000	0.4567306481
0.220000000	0.4647664928
0.225000000	0.4728365125
0.230000000	0.4809322638
0.235000000	0.4890437294
0.240000000	0.4971590836
0.245000000	0.5052936875
0.250000000	0.5134704267
0.255000000	0.5216784504
0.260000000	0.5299328559
0.265000000	0.5382048735
0.270000000	0.5465298380
0.275000000	0.5548494054
0.280000000	0.5632208776
0.285000000	0.5716444080
0.290000000	0.5801110255
0.295000000	0.5886473756
0.300000000	0.5971877322
0.305000000	0.6058021438
0.310000000	0.6144525430
0.315000000	0.6231532895
0.320000000	0.6318910505
0.325000000	0.6406976574
0.330000000	0.6495251199
0.335000000	0.6584607345
0.340000000	0.6674481947
0.345000000	0.6765038427
0.350000000	0.6856317548
0.355000000	0.6948221523
0.360000000	0.7040616465
0.365000000	0.7133791629
0.370000000	0.7227601321

0.3750000000	0.7321965130
0.3800000000	0.7416995799
0.3850000000	0.7513029594
0.3900000000	0.7609780500
0.3950000000	0.7707619527
0.4000000000	0.7806242779
0.4050000000	0.7905362595
0.4100000000	0.8005659036
0.4150000000	0.8106760871
0.4200000000	0.8208893168
0.4250000000	0.8312239571
0.4300000000	0.8416466846
0.4350000000	0.8521658253
0.4400000000	0.8627889962
0.4450000000	0.8735184627
0.4500000000	0.8843624839
0.4550000000	0.8953298833
0.4600000000	0.9064408066
0.4650000000	0.9176498212
0.4700000000	0.9290079052
0.4750000000	0.9404771164
0.4800000000	0.9520713686
0.4850000000	0.9638007707
0.4900000000	0.9757008593
0.4950000000	0.9877175097
0.5000000000	0.9998950536
0.5050000000	1.0122328236
0.5100000000	1.0246731753
0.5150000000	1.0372814068
0.5200000000	1.0500313392
0.5250000000	1.0629203247
0.5300000000	1.0760567989
0.5350000000	1.0893601390
0.5400000000	1.1028223353
0.5450000000	1.1164690265
0.5500000000	1.1303007563
0.5550000000	1.1443538257
0.5600000000	1.1585786271
0.5650000000	1.1730480662
0.5700000000	1.1877134012
0.5750000000	1.2026204154
0.5800000000	1.2177707673
0.5850000000	1.2331483820
0.5900000000	1.2487362479
0.5950000000	1.2646056836
0.6000000000	1.2806936977
0.6050000000	1.2970975471
0.6100000000	1.3138134352
0.6150000000	1.3307752921
0.6200000000	1.3480625676
0.6250000000	1.3655881740
0.6300000000	1.3834504314
0.6350000000	1.4016264228
0.6400000000	1.4201988437
0.6450000000	1.4391001319
0.6500000000	1.4583687844
0.6550000000	1.4780211648
0.6600000000	1.4980123077
0.6650000000	1.5184297852
0.6700000000	1.5392934574
0.6750000000	1.5605677658
0.6800000000	1.5822456135
0.6850000000	1.6044501151
0.6900000000	1.6271802627
0.6950000000	1.6503777260
0.7000000000	1.6740510390
0.7050000000	1.6983625293
0.7100000000	1.7233605473
0.7150000000	1.7488881109
0.7200000000	1.7750443563
0.7250000000	1.8018985928
0.7300000000	1.8294106120
0.7350000000	1.8577448679
0.7400000000	1.8867038411
0.7450000000	1.9164832685

0.7500000000	1.9471217510
0.7550000000	1.9786349494
0.7600000000	2.0110973966
0.7650000000	2.0445007959
0.7700000000	2.0788637768
0.7750000000	2.1144007482
0.7800000000	2.1510125899
0.7850000000	2.1890144712
0.7900000000	2.2281475732
0.7950000000	2.2686848718
0.8000000000	2.3107318729
0.8050000000	2.3543126520
0.8100000000	2.3995568037
0.8150000000	2.4464772164
0.8200000000	2.4952873652
0.8250000000	2.5459837018
0.8300000000	2.5986873365
0.8350000000	2.6539605390
0.8400000000	2.7116816283
0.8450000000	2.7718982199
0.8500000000	2.8350612774
0.8550000000	2.9012587782
0.8600000000	2.9712432367
0.8650000000	3.0446413032
0.8700000000	3.1224289799
0.8750000000	3.2047401523
0.8800000000	3.2919773959
0.8850000000	3.3847923101
0.8900000000	3.4838890679
0.8950000000	3.5895752795
0.9000000000	3.7029715255
0.9050000000	3.8250262451
0.9100000000	3.9569193451
0.9150000000	4.1001423462
0.9200000000	4.2567146280
0.9250000000	4.4285055515
0.9300000000	4.6175938174
0.9350000000	4.8279428106
0.9400000000	5.0644555276
0.9450000000	5.3307082851
0.9500000000	5.6371521050
0.9550000000	5.9922978970
0.9600000000	6.4120643786
0.9650000000	6.9181125242
0.9700000000	7.5424343975
0.9750000000	8.3474385955
0.9800000000	9.4404448586
0.9850000000	11.0342969241
0.9900000000	13.7068899073
0.9950000000	19.7365602697

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

$f_z(z), F_z(z)$	Coefficient
	Mathematical Mean: 1.74992 Geometrical Mean : 1.00002 Harmonic Mean : 0.57115 Variance : 28.08381 S.D. : 5.29942 Skewed Coef. : 658.50271 Kurtosis Coef. : 1460174.99801 MAD : 1.40514 Range : 15233.98657 Mid_range : 7616.99330 Median : 0.99994 Q1 : 0.53210 Q2 : 0.99994 Q3 : 1.87956 IQR : 1.34747 C.V. : 3.02837

the critical value table

	significant level			
value	0.995	0.99	0.975	0.95
	0.0560345662	0.0803298863	0.1306586368	0.1916696574

	significant level			
value	0.05	0.025	0.01	0.005
	5.2170860848	7.6497812237	12.4435149474	17.8311063784

Note: the critical value table

0.005000000	0.0560345662
0.010000000	0.0803298863
0.015000000	0.0993992037
0.020000000	0.1159099492
0.025000000	0.1306586368
0.030000000	0.1442540459
0.035000000	0.1570301411
0.040000000	0.1691263521
0.045000000	0.1806152522
0.050000000	0.1916696574
0.055000000	0.2023359081
0.060000000	0.2126878751
0.065000000	0.2227765406
0.070000000	0.2325782876
0.075000000	0.2422095166
0.080000000	0.2516247395
0.085000000	0.2608619644
0.090000000	0.2699704280
0.095000000	0.2789626214
0.100000000	0.2878020491
0.105000000	0.2965409072
0.110000000	0.3051885014
0.115000000	0.3137366652
0.120000000	0.3222279550
0.125000000	0.3306280309
0.130000000	0.3389787719
0.135000000	0.3472841562
0.140000000	0.3555308361
0.145000000	0.3637200444
0.150000000	0.3718899339
0.155000000	0.3800031841
0.160000000	0.3880699032
0.165000000	0.3961164786
0.170000000	0.4041519050
0.175000000	0.4121808166
0.180000000	0.4202061777
0.185000000	0.4282011609
0.190000000	0.4361846865
0.195000000	0.4441254601
0.200000000	0.4521083428
0.205000000	0.4600591881
0.210000000	0.4680166672
0.215000000	0.4760054602
0.220000000	0.4839872554
0.225000000	0.4919612530
0.230000000	0.4999883858
0.235000000	0.5079911728
0.240000000	0.5159904823
0.245000000	0.5240278119
0.250000000	0.5320962875
0.255000000	0.5401677980
0.260000000	0.5482646018
0.265000000	0.5563613567
0.270000000	0.5645106797
0.275000000	0.5726768991
0.280000000	0.5809011263
0.285000000	0.5891359806
0.290000000	0.5973809813
0.295000000	0.6057076521
0.300000000	0.6140542774
0.305000000	0.6224024863
0.310000000	0.6308289785
0.315000000	0.6392581613
0.320000000	0.6477620790
0.325000000	0.6563244896
0.330000000	0.6649142953
0.335000000	0.6735744461
0.340000000	0.6822859494
0.345000000	0.6910201416
0.350000000	0.6998133227
0.355000000	0.7086804630
0.360000000	0.7176093692
0.365000000	0.7266044880
0.370000000	0.7356363437

0.3750000000	0.7447577851
0.3800000000	0.7539268859
0.3850000000	0.7631666281
0.3900000000	0.7724790748
0.3950000000	0.7818920537
0.4000000000	0.7913326725
0.4050000000	0.8008837379
0.4100000000	0.8104784792
0.4150000000	0.8201883810
0.4200000000	0.8299693758
0.4250000000	0.8398613993
0.4300000000	0.8497901226
0.4350000000	0.8598369167
0.4400000000	0.8699866538
0.4450000000	0.8802206174
0.4500000000	0.8905278470
0.4550000000	0.9009593242
0.4600000000	0.9114852858
0.4650000000	0.9221628052
0.4700000000	0.9329107711
0.4750000000	0.9437724012
0.4800000000	0.9547810253
0.4850000000	0.9658538890
0.4900000000	0.9770694738
0.4950000000	0.9884384827
0.5000000000	0.9999372594
0.5050000000	1.0115767099
0.5100000000	1.0233215076
0.5150000000	1.0352230656
0.5200000000	1.0472907081
0.5250000000	1.0594820120
0.5300000000	1.0718122842
0.5350000000	1.0843173686
0.5400000000	1.0969544641
0.5450000000	1.1097754508
0.5500000000	1.1228108446
0.5550000000	1.1359798062
0.5600000000	1.1493200192
0.5650000000	1.1628758693
0.5700000000	1.1766714667
0.5750000000	1.1906518303
0.5800000000	1.2047939064
0.5850000000	1.2191541889
0.5900000000	1.2337756810
0.5950000000	1.2485765083
0.6000000000	1.2636662042
0.6050000000	1.2789082239
0.6100000000	1.2944471302
0.6150000000	1.3102748372
0.6200000000	1.3263095454
0.6250000000	1.3426342907
0.6300000000	1.3592654109
0.6350000000	1.3762002424
0.6400000000	1.3934231237
0.6450000000	1.4109843758
0.6500000000	1.4289383429
0.6550000000	1.4470927401
0.6600000000	1.4656452564
0.6650000000	1.4845668405
0.6700000000	1.5038211360
0.6750000000	1.5235020905
0.6800000000	1.5436321023
0.6850000000	1.5641525974
0.6900000000	1.5851974413
0.6950000000	1.6066437437
0.7000000000	1.6285954678
0.7050000000	1.6509608882
0.7100000000	1.6739919172
0.7150000000	1.6975023489
0.7200000000	1.7216100230
0.7250000000	1.7463452966
0.7300000000	1.7715667768
0.7350000000	1.7974800164
0.7400000000	1.8241404705
0.7450000000	1.8514675825

0.7500000000	1.8795628491
0.7550000000	1.9085087895
0.7600000000	1.9382127714
0.7650000000	1.9688051386
0.7700000000	2.0004544427
0.7750000000	2.0329620011
0.7800000000	2.0665529341
0.7850000000	2.1012055992
0.7900000000	2.1370554754
0.7950000000	2.1740507528
0.8000000000	2.2124191566
0.8050000000	2.2521395257
0.8100000000	2.2933853807
0.8150000000	2.3361067321
0.8200000000	2.3805450287
0.8250000000	2.4267815229
0.8300000000	2.4750269526
0.8350000000	2.5253583809
0.8400000000	2.5778361061
0.8450000000	2.6326430038
0.8500000000	2.6902065551
0.8550000000	2.7506115062
0.8600000000	2.8140268874
0.8650000000	2.8807880043
0.8700000000	2.9515119547
0.8750000000	3.0260233495
0.8800000000	3.1049197159
0.8850000000	3.1886739987
0.8900000000	3.2778089342
0.8950000000	3.3732602074
0.9000000000	3.4759290375
0.9050000000	3.5860886772
0.9100000000	3.7049025170
0.9150000000	3.8343118549
0.9200000000	3.9753971757
0.9250000000	4.1296533765
0.9300000000	4.3001298892
0.9350000000	4.4896714458
0.9400000000	4.7016165001
0.9450000000	4.9426761698
0.9500000000	5.2170860848
0.9550000000	5.5368235722
0.9600000000	5.9128569954
0.9650000000	6.3665352630
0.9700000000	6.9277814244
0.9750000000	7.6497812237
0.9800000000	8.6255437122
0.9850000000	10.0505483674
0.9900000000	12.4435149474
0.9950000000	17.8311063784

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

$f_z(z), F_z(z)$	Coefficient
	Mathematical Mean: 1.64018 Geometrical Mean : 1.00006 Harmonic Mean : 0.60997 Variance : 28.18908 S.D. : 5.30934 Skewed Coef. : 1436.39016 Kurtosis Coef. : 5050506.36391 MAD : 1.23954 Range : 22165.95542 Mid_range : 11082.97788 Median : 1.00021 Q1 : 0.55749 Q2 : 1.00021 Q3 : 1.79379 IQR : 1.23630 C.V. : 3.23705

the critical value table

	significant level			
value	0.995	0.99	0.975	0.95
	0.0644512947	0.0917942983	0.1473218703	0.2130128447

	significant level			
value	0.05	0.025	0.01	0.005
	4.6954534943	6.7851957838	10.8910613199	15.5037741724

Note: the critical value table

0.005000000	0.0644512947
0.010000000	0.0917942983
0.015000000	0.1129887912
0.020000000	0.1311385218
0.025000000	0.1473218703
0.030000000	0.1621304830
0.035000000	0.1759234397
0.040000000	0.1889307136
0.045000000	0.2011929962
0.050000000	0.2130128447
0.055000000	0.2243450113
0.060000000	0.2352766411
0.065000000	0.2458354158
0.070000000	0.2561255732
0.075000000	0.2661392409
0.080000000	0.2759370729
0.085000000	0.2855532022
0.090000000	0.2949771819
0.095000000	0.3042521925
0.100000000	0.3133696924
0.105000000	0.3223517202
0.110000000	0.3312236892
0.115000000	0.3399717600
0.120000000	0.3486654128
0.125000000	0.3572495949
0.130000000	0.3657480469
0.135000000	0.3741403716
0.140000000	0.3824751055
0.145000000	0.3907071594
0.150000000	0.3989116950
0.155000000	0.4070775748
0.160000000	0.4151853396
0.165000000	0.4232747538
0.170000000	0.4313250411
0.175000000	0.4393207409
0.180000000	0.4472961560
0.185000000	0.4552696152
0.190000000	0.4631983060
0.195000000	0.4711028673
0.200000000	0.4789835647
0.205000000	0.4868819924
0.210000000	0.4947543062
0.215000000	0.5026074422
0.220000000	0.5104413021
0.225000000	0.5182898944
0.230000000	0.5261144359
0.235000000	0.5339672408
0.240000000	0.5418198575
0.245000000	0.5496513868
0.250000000	0.5574878178
0.255000000	0.5653599434
0.260000000	0.5732647464
0.265000000	0.5811757925
0.270000000	0.5890831371
0.275000000	0.5970205101
0.280000000	0.6049740966
0.285000000	0.6129476385
0.290000000	0.6209263039
0.295000000	0.6289055374
0.300000000	0.6369218133
0.305000000	0.6449735840
0.310000000	0.6530640020
0.315000000	0.6611704145
0.320000000	0.6693422408
0.325000000	0.6775440648
0.330000000	0.6857778745
0.335000000	0.6940273925
0.340000000	0.7023289198
0.345000000	0.7106909678
0.350000000	0.7190864819
0.355000000	0.7275338245
0.360000000	0.7359904456
0.365000000	0.7445384927
0.370000000	0.7531083187

0.3750000000	0.7617365180
0.3800000000	0.7704093110
0.3850000000	0.7791601695
0.3900000000	0.7879730230
0.3950000000	0.7968414505
0.4000000000	0.8057507383
0.4050000000	0.8147365413
0.4100000000	0.8237711628
0.4150000000	0.8328755563
0.4200000000	0.8420350665
0.4250000000	0.8512827998
0.4300000000	0.8606075153
0.4350000000	0.8699901492
0.4400000000	0.8794653821
0.4450000000	0.8890424618
0.4500000000	0.8986718861
0.4550000000	0.9083977253
0.4600000000	0.9182328554
0.4650000000	0.9281491078
0.4700000000	0.9381297870
0.4750000000	0.9482455748
0.4800000000	0.9584479004
0.4850000000	0.9687342242
0.4900000000	0.9791161121
0.4950000000	0.9896096899
0.5000000000	1.0002100452
0.5050000000	1.0109295328
0.5100000000	1.0217667553
0.5150000000	1.0327327298
0.5200000000	1.0438224061
0.5250000000	1.0550451551
0.5300000000	1.0663844617
0.5350000000	1.0778297296
0.5400000000	1.0894706016
0.5450000000	1.1012328100
0.5500000000	1.1131716373
0.5550000000	1.1252054129
0.5600000000	1.1374230700
0.5650000000	1.1498022720
0.5700000000	1.1623643111
0.5750000000	1.1751140475
0.5800000000	1.1879871659
0.5850000000	1.2010809103
0.5900000000	1.2143545947
0.5950000000	1.2278133112
0.6000000000	1.2414705001
0.6050000000	1.2553487998
0.6100000000	1.2694151854
0.6150000000	1.2837574506
0.6200000000	1.2982826886
0.6250000000	1.3130640799
0.6300000000	1.3281297546
0.6350000000	1.3434577298
0.6400000000	1.3590428974
0.6450000000	1.3748440826
0.6500000000	1.3910026639
0.6550000000	1.4073773350
0.6600000000	1.4240823589
0.6650000000	1.4410929023
0.6700000000	1.4584538070
0.6750000000	1.4761061017
0.6800000000	1.4941384263
0.6850000000	1.5125586293
0.6900000000	1.5313469986
0.6950000000	1.5505828933
0.7000000000	1.5701601239
0.7050000000	1.5902366543
0.7100000000	1.6107742725
0.7150000000	1.6318113728
0.7200000000	1.6532901943
0.7250000000	1.6752625821
0.7300000000	1.6977930865
0.7350000000	1.7208604773
0.7400000000	1.7445574447
0.7450000000	1.7688021797

0.750000000	1.7937870846
0.755000000	1.8193946877
0.760000000	1.8457296545
0.765000000	1.8728563123
0.770000000	1.9008604655
0.775000000	1.9295941773
0.780000000	1.9591991062
0.785000000	1.9897806864
0.790000000	2.0213785073
0.795000000	2.0539141018
0.800000000	2.0876762769
0.805000000	2.1226732918
0.810000000	2.1589093847
0.815000000	2.1965853053
0.820000000	2.2357313136
0.825000000	2.2764205502
0.830000000	2.3186826286
0.835000000	2.3628393765
0.840000000	2.4088100886
0.845000000	2.4567599500
0.850000000	2.5069258579
0.855000000	2.5595868988
0.860000000	2.6150510488
0.865000000	2.6734218108
0.870000000	2.7348726421
0.875000000	2.7998460191
0.880000000	2.8683549849
0.885000000	2.9412025789
0.890000000	3.0190117656
0.895000000	3.1021075724
0.900000000	3.1912360548
0.905000000	3.2867431572
0.910000000	3.3899505216
0.915000000	3.5019580059
0.920000000	3.6237252817
0.925000000	3.7572606614
0.930000000	3.9046660316
0.935000000	4.0680893063
0.940000000	4.2515217412
0.945000000	4.4581067184
0.950000000	4.6954534943
0.955000000	4.9693278741
0.960000000	5.2935119589
0.965000000	5.6834815894
0.970000000	6.1668348858
0.975000000	6.7851957838
0.980000000	7.6237841955
0.985000000	8.8454472986
0.990000000	10.8910613199
0.995000000	15.5037741724

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

$f_z(z), F_z(z)$	Coefficient
	Mathematical Mean: 1.51116 Geometrical Mean : 1.00016 Harmonic Mean : 0.66261 Variance : 28.37337 S.D. : 5.32667 Skewed Coef. : 2932.61900 Kurtosis Coef. : 14979546.57132 MAD : 1.04240 Range : 29600.11082 Mid_range : 14800.05553 Median : 1.00004 Q1 : 0.59272 Q2 : 1.00004 Q3 : 1.68734 IQR : 1.09462 C.V. : 3.52489

the critical value table

	significant level			
value	0.995	0.99	0.975	0.95
	0.0786284348	0.1105328347	0.1737721177	0.2455637161

	significant level			
value	0.05	0.025	0.01	0.005
	4.0737837158	5.7623828282	9.0518704573	12.7328397454

Note: the critical value table

0.005000000	0.0786284348
0.010000000	0.1105328347
0.015000000	0.1349897137
0.020000000	0.1556078714
0.025000000	0.1737721177
0.030000000	0.1901832835
0.035000000	0.2053374786
0.040000000	0.2195065384
0.045000000	0.2328863289
0.050000000	0.2455637161
0.055000000	0.2577180346
0.060000000	0.2694043215
0.065000000	0.2806426081
0.070000000	0.2915214390
0.075000000	0.3021044764
0.080000000	0.3123739431
0.085000000	0.3224160376
0.090000000	0.3322252318
0.095000000	0.3418110722
0.100000000	0.3511979459
0.105000000	0.3604350701
0.110000000	0.3695163333
0.115000000	0.3784523072
0.120000000	0.3872401507
0.125000000	0.3959426310
0.130000000	0.4045195071
0.135000000	0.4129987948
0.140000000	0.4213902234
0.145000000	0.4296879870
0.150000000	0.4378770928
0.155000000	0.4460095389
0.160000000	0.4540847331
0.165000000	0.4621197514
0.170000000	0.4700680821
0.175000000	0.4779524958
0.180000000	0.4858170205
0.185000000	0.4936424058
0.190000000	0.5014144110
0.195000000	0.5091413853
0.200000000	0.5168627904
0.205000000	0.5245208408
0.210000000	0.5321625022
0.215000000	0.5397819409
0.220000000	0.5473802461
0.225000000	0.5549864890
0.230000000	0.5625328453
0.235000000	0.5700715548
0.240000000	0.5776402826
0.245000000	0.5852000658
0.250000000	0.5927189454
0.255000000	0.6002494185
0.260000000	0.6077764109
0.265000000	0.6153004948
0.270000000	0.6228200492
0.275000000	0.6303471479
0.280000000	0.6378754348
0.285000000	0.6454187188
0.290000000	0.6529419204
0.295000000	0.6605151116
0.300000000	0.6680916240
0.305000000	0.6756835837
0.310000000	0.6832849377
0.315000000	0.6908983719
0.320000000	0.6985179440
0.325000000	0.7061869823
0.330000000	0.7138679289
0.335000000	0.7215783041
0.340000000	0.7293103641
0.345000000	0.7370398178
0.350000000	0.7448096582
0.355000000	0.7526200607
0.360000000	0.7604411872
0.365000000	0.7682999511
0.370000000	0.7761913243

0.3750000000	0.7841484343
0.3800000000	0.7921365307
0.3850000000	0.8001498452
0.3900000000	0.8082143559
0.3950000000	0.8163235105
0.4000000000	0.8244762275
0.4050000000	0.8326734698
0.4100000000	0.8409402235
0.4150000000	0.8492426254
0.4200000000	0.8575798648
0.4250000000	0.8659730683
0.4300000000	0.8744479719
0.4350000000	0.8829819204
0.4400000000	0.8915439985
0.4450000000	0.9001840353
0.4500000000	0.9089023557
0.4550000000	0.9177055161
0.4600000000	0.9265571505
0.4650000000	0.9354581953
0.4700000000	0.9444625344
0.4750000000	0.9535431340
0.4800000000	0.9626711529
0.4850000000	0.9718959752
0.4900000000	0.9811751921
0.4950000000	0.9905630075
0.5000000000	1.0000389410
0.5050000000	1.0096201049
0.5100000000	1.0193021556
0.5150000000	1.0290749292
0.5200000000	1.0389435372
0.5250000000	1.0489163994
0.5300000000	1.0589752162
0.5350000000	1.0691358663
0.5400000000	1.0794429878
0.5450000000	1.0898541408
0.5500000000	1.1004132712
0.5550000000	1.1110554896
0.5600000000	1.1218481013
0.5650000000	1.1327737037
0.5700000000	1.1438258069
0.5750000000	1.1549623791
0.5800000000	1.1662697602
0.5850000000	1.1777412052
0.5900000000	1.1893307598
0.5950000000	1.2011483099
0.6000000000	1.2131242373
0.6050000000	1.2252263226
0.6100000000	1.2374981052
0.6150000000	1.2499534884
0.6200000000	1.2626253019
0.6250000000	1.2754898780
0.6300000000	1.2885388492
0.6350000000	1.3017783666
0.6400000000	1.3152170324
0.6450000000	1.3289529858
0.6500000000	1.3428723066
0.6550000000	1.3570528296
0.6600000000	1.3714882606
0.6650000000	1.3862066866
0.6700000000	1.4011317182
0.6750000000	1.4163405450
0.6800000000	1.4318357430
0.6850000000	1.4476628268
0.6900000000	1.4637798018
0.6950000000	1.4802384686
0.7000000000	1.4970545920
0.7050000000	1.5141788316
0.7100000000	1.5317458695
0.7150000000	1.5496450935
0.7200000000	1.5679328526
0.7250000000	1.5866511299
0.7300000000	1.6057702419
0.7350000000	1.6253679231
0.7400000000	1.6454842627
0.7450000000	1.6661390603

0.750000000	1.6873357567
0.755000000	1.7090309855
0.760000000	1.7313578106
0.765000000	1.7542629459
0.770000000	1.7778462823
0.775000000	1.8020825969
0.780000000	1.8270078022
0.785000000	1.8527356719
0.790000000	1.8792267928
0.795000000	1.9066759793
0.800000000	1.9349999177
0.805000000	1.9643967829
0.810000000	1.9946439898
0.815000000	2.0261070643
0.820000000	2.0586499964
0.825000000	2.0926568346
0.830000000	2.1278864228
0.835000000	2.1646510435
0.840000000	2.2029408406
0.845000000	2.2427871349
0.850000000	2.2844349511
0.855000000	2.3280933516
0.860000000	2.3739502679
0.865000000	2.4222057690
0.870000000	2.4729132750
0.875000000	2.5265975348
0.880000000	2.5833188643
0.885000000	2.6438157485
0.890000000	2.7079339760
0.895000000	2.7763669582
0.900000000	2.8493759617
0.905000000	2.9278332053
0.910000000	3.0123574721
0.915000000	3.1036505352
0.920000000	3.2033073671
0.925000000	3.3120416232
0.930000000	3.4322632313
0.935000000	3.5649116677
0.940000000	3.7136803855
0.945000000	3.8813569240
0.950000000	4.0737837158
0.955000000	4.2957452981
0.960000000	4.5578451552
0.965000000	4.8732709989
0.970000000	5.2622675361
0.975000000	5.7623828282
0.980000000	6.4332608379
0.985000000	7.4150735432
0.990000000	9.0518704573
0.995000000	12.7328397454

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

$f_z(z), F_z(z)$	Coefficient
	Mathematical Mean: 1.36028 Geometrical Mean : 1.00015 Harmonic Mean : 0.73562 Variance : 6.54543 S.D. : 2.55840 Skewed Coef. : 380.89899 Kurtosis Coef. : 536013.92013 MAD : 0.80618 Range : 5759.70401 Mid_range : 2879.85217 Median : 1.00009 Q1 : 0.64349 Q2 : 1.00009 Q3 : 1.55430 IQR : 0.91081 C.V. : 1.88080

the critical value table

	significant level			
value	0.995	0.99	0.975	0.95
	0.1050235417	0.1447063519	0.2194303116	0.2996941200

	significant level			
value	0.05	0.025	0.01	0.005
	3.3357922515	4.5550221345	6.9044291839	9.5283554035

Note: the critical value table

0.005000000	0.1050235417
0.010000000	0.1447063519
0.015000000	0.1741648901
0.020000000	0.1984380277
0.025000000	0.2194303116
0.030000000	0.2381764493
0.035000000	0.2552535073
0.040000000	0.2710640057
0.045000000	0.2858479776
0.050000000	0.2996941200
0.055000000	0.3128515608
0.060000000	0.3253529446
0.065000000	0.3373008117
0.070000000	0.3488181472
0.075000000	0.3598971797
0.080000000	0.3706134766
0.085000000	0.3810124445
0.090000000	0.3911493646
0.095000000	0.4010035408
0.100000000	0.4105878676
0.105000000	0.4199547014
0.110000000	0.4291120868
0.115000000	0.4381104751
0.120000000	0.4469545540
0.125000000	0.4556090774
0.130000000	0.4640794689
0.135000000	0.4724620039
0.140000000	0.4807047115
0.145000000	0.4888308965
0.150000000	0.4968841909
0.155000000	0.5048235171
0.160000000	0.5126759699
0.165000000	0.5204246908
0.170000000	0.5281039346
0.175000000	0.5357188524
0.180000000	0.5432436523
0.185000000	0.5506849785
0.190000000	0.5580776407
0.195000000	0.5654024761
0.200000000	0.5726910188
0.205000000	0.5799350429
0.210000000	0.5871280400
0.215000000	0.5942869824
0.220000000	0.6013887640
0.225000000	0.6084606876
0.230000000	0.6155180672
0.235000000	0.6225398147
0.240000000	0.6295290323
0.245000000	0.6365213747
0.250000000	0.6434695189
0.255000000	0.6503923887
0.260000000	0.6572757710
0.265000000	0.6641593105
0.270000000	0.6710220666
0.275000000	0.6778787815
0.280000000	0.6847271749
0.285000000	0.6915661463
0.290000000	0.6983909194
0.295000000	0.7052197458
0.300000000	0.7120308222
0.305000000	0.7188167331
0.310000000	0.7256524955
0.315000000	0.7324811294
0.320000000	0.7393173606
0.325000000	0.7461554217
0.330000000	0.7530110087
0.335000000	0.7598472357
0.340000000	0.7666847441
0.345000000	0.7735287041
0.350000000	0.7804022320
0.355000000	0.7872845764
0.360000000	0.7941545679
0.365000000	0.8010693032
0.370000000	0.8079984244

0.3750000000	0.8149455616
0.3800000000	0.8219212960
0.3850000000	0.8289258768
0.3900000000	0.8359604575
0.3950000000	0.8430166173
0.4000000000	0.8501128290
0.4050000000	0.8572027843
0.4100000000	0.8643496178
0.4150000000	0.8715193631
0.4200000000	0.8787254311
0.4250000000	0.8859582029
0.4300000000	0.8932206454
0.4350000000	0.9005393258
0.4400000000	0.9078871628
0.4450000000	0.9152884257
0.4500000000	0.9227215953
0.4550000000	0.9302253341
0.4600000000	0.9377467794
0.4650000000	0.9453367370
0.4700000000	0.9529416482
0.4750000000	0.9605920729
0.4800000000	0.9683053482
0.4850000000	0.9761006139
0.4900000000	0.9839696486
0.4950000000	0.9918673929
0.5000000000	0.9998501158
0.5050000000	1.0078647947
0.5100000000	1.0159532278
0.5150000000	1.0241225297
0.5200000000	1.0323608991
0.5250000000	1.0406895067
0.5300000000	1.0490708890
0.5350000000	1.0575175096
0.5400000000	1.0660402873
0.5450000000	1.0746671741
0.5500000000	1.0833911223
0.5550000000	1.0922023037
0.5600000000	1.1010967079
0.5650000000	1.1100972267
0.5700000000	1.1191903546
0.5750000000	1.1283960824
0.5800000000	1.1377023952
0.5850000000	1.1470941724
0.5900000000	1.1566289205
0.5950000000	1.1662673003
0.6000000000	1.1760459333
0.6050000000	1.1859202563
0.6100000000	1.1959089038
0.6150000000	1.2060526010
0.6200000000	1.2163309069
0.6250000000	1.2267243709
0.6300000000	1.2372999320
0.6350000000	1.2480110743
0.6400000000	1.2588664128
0.6450000000	1.2698722664
0.6500000000	1.2810707277
0.6550000000	1.2924492517
0.6600000000	1.3039998260
0.6650000000	1.3157686495
0.6700000000	1.3277098213
0.6750000000	1.3398878329
0.6800000000	1.3522815436
0.6850000000	1.3649068326
0.6900000000	1.3777256631
0.6950000000	1.3907635269
0.7000000000	1.4041127760
0.7050000000	1.4176645759
0.7100000000	1.4314930002
0.7150000000	1.4456213720
0.7200000000	1.4600989034
0.7250000000	1.4748797741
0.7300000000	1.4899216882
0.7350000000	1.5053403992
0.7400000000	1.5211811393
0.7450000000	1.5373305100

0.7500000000	1.5539137958
0.7550000000	1.5708620391
0.7600000000	1.5882508753
0.7650000000	1.6061199899
0.7700000000	1.6243982842
0.7750000000	1.6432790309
0.7800000000	1.6626405337
0.7850000000	1.6826045289
0.7900000000	1.7031629747
0.7950000000	1.7243135993
0.8000000000	1.7461183916
0.8050000000	1.7685857530
0.8100000000	1.7918935965
0.8150000000	1.8160261991
0.8200000000	1.8409868995
0.8250000000	1.8669259360
0.8300000000	1.8938100414
0.8350000000	1.9217025327
0.8400000000	1.9507155691
0.8450000000	1.9810900181
0.8500000000	2.0127725037
0.8550000000	2.0458649296
0.8600000000	2.0805443924
0.8650000000	2.1169024734
0.8700000000	2.1551147616
0.8750000000	2.1953523515
0.8800000000	2.2378234260
0.8850000000	2.2828588233
0.8900000000	2.3306414404
0.8950000000	2.3815713005
0.9000000000	2.4358165521
0.9050000000	2.4938126779
0.9100000000	2.5566016567
0.9150000000	2.6242748227
0.9200000000	2.6978438128
0.9250000000	2.7781120579
0.9300000000	2.8665263190
0.9350000000	2.9643710419
0.9400000000	3.0733723744
0.9450000000	3.1960232571
0.9500000000	3.3357922515
0.9550000000	3.4976531516
0.9600000000	3.6874015630
0.9650000000	3.9153914648
0.9700000000	4.1964813593
0.9750000000	4.5550221345
0.9800000000	5.0377048657
0.9850000000	5.7378898873
0.9900000000	6.9044291839
0.9950000000	9.5283554035

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

$f_z(z), F_z(z)$	Coefficient
	Mathematical Mean: 1.18983 Geometrical Mean : 0.99998 Harmonic Mean : 0.84025 Variance : 1.68493 S.D. : 1.29805 Skewed Coef. : 140.08350 Kurtosis Coef. : 78467.48055 MAD : 0.52216 Range : 1256.98798 Mid_range : 628.49430 Median : 0.99999 Q1 : 0.72509 Q2 : 0.99999 Q3 : 1.37918 IQR : 0.65409 C.V. : 1.09095

the critical value table

	significant level			
value	0.995	0.99	0.975	0.95
	0.1707454304	0.2250852515	0.3177445830	0.4069979146

	significant level			
value	0.05	0.025	0.01	0.005
	2.4565173008	3.1470189906	4.4435705627	5.8582476216

Note: the critical value table

0.005000000	0.1707454304
0.010000000	0.2250852515
0.015000000	0.2628957437
0.020000000	0.2928018120
0.025000000	0.3177445830
0.030000000	0.3393980549
0.035000000	0.3586536092
0.040000000	0.3761741146
0.045000000	0.3921483850
0.050000000	0.4069979146
0.055000000	0.4208262847
0.060000000	0.4338808111
0.065000000	0.4461892755
0.070000000	0.4578595435
0.075000000	0.4690179236
0.080000000	0.4796895533
0.085000000	0.4899681258
0.090000000	0.4998601395
0.095000000	0.5094163598
0.100000000	0.5186183258
0.105000000	0.5275559884
0.110000000	0.5362578368
0.115000000	0.5447166475
0.120000000	0.5529530802
0.125000000	0.5610113381
0.130000000	0.5688630862
0.135000000	0.5765722884
0.140000000	0.5840964720
0.145000000	0.5914634386
0.150000000	0.5986964590
0.155000000	0.6058272862
0.160000000	0.6128278828
0.165000000	0.6196894730
0.170000000	0.6264878428
0.175000000	0.6331843840
0.180000000	0.6397690403
0.185000000	0.6462670924
0.190000000	0.6527060171
0.195000000	0.6590738157
0.200000000	0.6653941378
0.205000000	0.6716108166
0.210000000	0.6777575397
0.215000000	0.6838539244
0.220000000	0.6898948480
0.225000000	0.6958709452
0.230000000	0.7018034352
0.235000000	0.7076963173
0.240000000	0.7135304944
0.245000000	0.7193311575
0.250000000	0.7250887555
0.255000000	0.7307980091
0.260000000	0.7364772000
0.265000000	0.7421358197
0.270000000	0.7477313026
0.275000000	0.7533210847
0.280000000	0.7588978294
0.285000000	0.7644425639
0.290000000	0.7699537050
0.295000000	0.7754611532
0.300000000	0.7809397075
0.305000000	0.7864021126
0.310000000	0.7918399837
0.315000000	0.7972783915
0.320000000	0.8026975419
0.325000000	0.8081005859
0.330000000	0.8134985672
0.335000000	0.8188904549
0.340000000	0.8242697911
0.345000000	0.8296435226
0.350000000	0.8350004886
0.355000000	0.8403773416
0.360000000	0.8457390888
0.365000000	0.8511126674
0.370000000	0.8564796703

0.3750000000	0.8618411742
0.3800000000	0.8672111529
0.3850000000	0.8725805487
0.3900000000	0.8779610928
0.3950000000	0.8833500790
0.4000000000	0.8887454012
0.4050000000	0.8941560286
0.4100000000	0.8995754463
0.4150000000	0.9049908776
0.4200000000	0.9104231774
0.4250000000	0.9158740220
0.4300000000	0.9213433643
0.4350000000	0.9268161822
0.4400000000	0.9323288013
0.4450000000	0.9378412923
0.4500000000	0.9433759420
0.4550000000	0.9489330424
0.4600000000	0.9545219241
0.4650000000	0.9601130836
0.4700000000	0.9657290585
0.4750000000	0.9713825614
0.4800000000	0.9770529105
0.4850000000	0.9827400076
0.4900000000	0.9884667930
0.4950000000	0.9942013425
0.5000000000	0.9999938908
0.5050000000	1.0058370581
0.5100000000	1.0116989796
0.5150000000	1.0176001578
0.5200000000	1.0235408574
0.5250000000	1.0295270989
0.5300000000	1.0355302209
0.5350000000	1.0415995133
0.5400000000	1.0477153310
0.5450000000	1.0538655673
0.5500000000	1.0600704615
0.5550000000	1.0663221163
0.5600000000	1.0726437777
0.5650000000	1.0789936383
0.5700000000	1.0854060447
0.5750000000	1.0918822838
0.5800000000	1.0984148077
0.5850000000	1.1050245347
0.5900000000	1.1116988797
0.5950000000	1.1184131775
0.6000000000	1.1252037697
0.6050000000	1.1320559327
0.6100000000	1.1390008610
0.6150000000	1.1460402550
0.6200000000	1.1531319053
0.6250000000	1.1603098546
0.6300000000	1.1675987956
0.6350000000	1.1749411101
0.6400000000	1.1824001142
0.6450000000	1.1899408013
0.6500000000	1.1975847233
0.6550000000	1.2053426863
0.6600000000	1.2132153923
0.6650000000	1.2211815072
0.6700000000	1.2292695343
0.6750000000	1.2374816663
0.6800000000	1.2458245921
0.6850000000	1.2542824970
0.6900000000	1.2628717095
0.6950000000	1.2716145894
0.7000000000	1.2805001533
0.7050000000	1.2895494025
0.7100000000	1.2987488709
0.7150000000	1.3081089854
0.7200000000	1.3176472361
0.7250000000	1.3273577533
0.7300000000	1.3373348152
0.7350000000	1.3474707787
0.7400000000	1.3578418308
0.7450000000	1.3683903483

0.750000000	1.3791831699
0.755000000	1.3902110358
0.760000000	1.4014782065
0.765000000	1.4130439225
0.770000000	1.4248923961
0.775000000	1.4370645179
0.780000000	1.4495361471
0.785000000	1.4623671273
0.790000000	1.4754832572
0.795000000	1.4890136681
0.800000000	1.5028617978
0.805000000	1.5171845600
0.810000000	1.5319676329
0.815000000	1.5472037011
0.820000000	1.5629890851
0.825000000	1.5792552314
0.830000000	1.5961021735
0.835000000	1.6135541270
0.840000000	1.6316217969
0.845000000	1.6505337473
0.850000000	1.6701724691
0.855000000	1.6906877058
0.860000000	1.7120240628
0.865000000	1.7344149467
0.870000000	1.7578705886
0.875000000	1.7825069224
0.880000000	1.8083983210
0.885000000	1.8358133383
0.890000000	1.8648226314
0.895000000	1.8955586340
0.900000000	1.9282413307
0.905000000	1.9631405810
0.910000000	2.0006007074
0.915000000	2.0408240630
0.920000000	2.0842050636
0.925000000	2.1315369219
0.930000000	2.1834088355
0.935000000	2.2406476906
0.940000000	2.3039834375
0.945000000	2.3755632036
0.950000000	2.4565173008
0.955000000	2.5489936801
0.960000000	2.6574227194
0.965000000	2.7867057671
0.970000000	2.9454778780
0.975000000	3.1470189906
0.980000000	3.4152006050
0.985000000	3.8024625348
0.990000000	4.4435705627
0.995000000	5.8582476216

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

$f_z(z), F_z(z)$	Coefficient
	Mathematical Mean: 1.99942 Geometrical Mean : 0.99972 Harmonic Mean : 0.49992 Variance : 54.98123 S.D. : 7.41493 Skewed Coef. : 893.93133 Kurtosis Coef. : 2440890.83343 MAD : 1.77719 Range : 25785.29725 Mid_range : 12892.64871 Median : 0.99976 Q1 : 0.48435 Q2 : 0.99976 Q3 : 2.06385 IQR : 1.57950 C.V. : 3.70855

the critical value table

	significant level			
value	0.995	0.99	0.975	0.95
	0.0431621601	0.0625416064	0.1040454105	0.1564296542

	significant level			
value	0.05	0.025	0.01	0.005
	6.3889285905	9.6025026105	15.9568326320	23.1076851600

Note: the critical value table

0.005000000	0.0431621601
0.010000000	0.0625416064
0.015000000	0.0780938230
0.020000000	0.0916868858
0.025000000	0.1040454105
0.030000000	0.1155270360
0.035000000	0.1263916182
0.040000000	0.1367674909
0.045000000	0.1467591458
0.050000000	0.1564296542
0.055000000	0.1658452305
0.060000000	0.1750419502
0.065000000	0.1840506913
0.070000000	0.1928660147
0.075000000	0.2015359437
0.080000000	0.2100602713
0.085000000	0.2185154641
0.090000000	0.2268738831
0.095000000	0.2351792695
0.100000000	0.2434097719
0.105000000	0.2515522697
0.110000000	0.2596342706
0.115000000	0.2676810671
0.120000000	0.2757004057
0.125000000	0.2837041621
0.130000000	0.2916473800
0.135000000	0.2995964914
0.140000000	0.3075020059
0.145000000	0.3154151087
0.150000000	0.3233341493
0.155000000	0.3312389281
0.160000000	0.3391500922
0.165000000	0.3470491808
0.170000000	0.3549491154
0.175000000	0.3628903493
0.180000000	0.3708200411
0.185000000	0.3787985823
0.190000000	0.3867833144
0.195000000	0.3947638431
0.200000000	0.4027684548
0.205000000	0.4107871036
0.210000000	0.4188543026
0.215000000	0.4269097524
0.220000000	0.4350023850
0.225000000	0.4431172573
0.230000000	0.4512972443
0.235000000	0.4594941313
0.240000000	0.4677425590
0.245000000	0.4760460605
0.250000000	0.4843508928
0.255000000	0.4927140411
0.260000000	0.5011229526
0.265000000	0.5096092676
0.270000000	0.5180883095
0.275000000	0.5266678279
0.280000000	0.5352808803
0.285000000	0.5439585842
0.290000000	0.5527081356
0.295000000	0.5614904761
0.300000000	0.5703367861
0.305000000	0.5792512625
0.310000000	0.5882204623
0.315000000	0.5972523194
0.320000000	0.6063676832
0.325000000	0.6155481492
0.330000000	0.6248203994
0.335000000	0.6341656586
0.340000000	0.6435705577
0.345000000	0.6530378468
0.350000000	0.6625988435
0.355000000	0.6722579352
0.360000000	0.6819928241
0.365000000	0.6918248795
0.370000000	0.7017266240

0.3750000000	0.7117494716
0.3800000000	0.7218139034
0.3850000000	0.7320084601
0.3900000000	0.7423086148
0.3950000000	0.7527107824
0.4000000000	0.7632119622
0.4050000000	0.7737876213
0.4100000000	0.7845146515
0.4150000000	0.7953347968
0.4200000000	0.8062596358
0.4250000000	0.8173496029
0.4300000000	0.8285489902
0.4350000000	0.8398623684
0.4400000000	0.8513311190
0.4450000000	0.8628667972
0.4500000000	0.8745538033
0.4550000000	0.8863697678
0.4600000000	0.8983709924
0.4650000000	0.9104846967
0.4700000000	0.9227940301
0.4750000000	0.9352155137
0.4800000000	0.9478095549
0.4850000000	0.9605326072
0.4900000000	0.9734329945
0.4950000000	0.9864830566
0.5000000000	0.9997610939
0.5050000000	1.0131742442
0.5100000000	1.0268193318
0.5150000000	1.0405975515
0.5200000000	1.0546094050
0.5250000000	1.0687519194
0.5300000000	1.0831243827
0.5350000000	1.0977156334
0.5400000000	1.1125629216
0.5450000000	1.1276078547
0.5500000000	1.1428537640
0.5550000000	1.1583768271
0.5600000000	1.1740560520
0.5650000000	1.1900334581
0.5700000000	1.2062456596
0.5750000000	1.2227386852
0.5800000000	1.2395288317
0.5850000000	1.2565628431
0.5900000000	1.2738966170
0.5950000000	1.2915058911
0.6000000000	1.3094321834
0.6050000000	1.3277482445
0.6100000000	1.3463331777
0.6150000000	1.3652432307
0.6200000000	1.3845060564
0.6250000000	1.4041745508
0.6300000000	1.4242652868
0.6350000000	1.4446540553
0.6400000000	1.4655305824
0.6450000000	1.4867335847
0.6500000000	1.5084066299
0.6550000000	1.5305819181
0.6600000000	1.5531765431
0.6650000000	1.5762235699
0.6700000000	1.5998015547
0.6750000000	1.6238203250
0.6800000000	1.6484722879
0.6850000000	1.6736258827
0.6900000000	1.6993920466
0.6950000000	1.7257430395
0.7000000000	1.7527143987
0.7050000000	1.7803284922
0.7100000000	1.8086564226
0.7150000000	1.8376982461
0.7200000000	1.8674921854
0.7250000000	1.8981277608
0.7300000000	1.9293419032
0.7350000000	1.9615392515
0.7400000000	1.9946529530
0.7450000000	2.0287713872

0.750000000	2.0638536428
0.755000000	2.1000056557
0.760000000	2.1371950141
0.765000000	2.1755936269
0.770000000	2.2150274831
0.775000000	2.2559090003
0.780000000	2.2980581659
0.785000000	2.3417444052
0.790000000	2.3869453276
0.795000000	2.4335685825
0.800000000	2.4820959329
0.805000000	2.5323953775
0.810000000	2.5845860057
0.815000000	2.6387558264
0.820000000	2.6954321738
0.825000000	2.7542939601
0.830000000	2.8157791050
0.835000000	2.8797983737
0.840000000	2.9467110595
0.845000000	3.0170543931
0.850000000	3.0907023705
0.855000000	3.1681236087
0.860000000	3.2495930989
0.865000000	3.3353373905
0.870000000	3.4262649633
0.875000000	3.5224523854
0.880000000	3.6246757895
0.885000000	3.7334529153
0.890000000	3.8493087980
0.895000000	3.9735310869
0.900000000	4.1065833735
0.905000000	4.2499103280
0.910000000	4.4048824800
0.915000000	4.5735509141
0.920000000	4.7574416365
0.925000000	4.9596047381
0.930000000	5.1826845206
0.935000000	5.4315538022
0.940000000	5.7107374838
0.945000000	6.0260606843
0.950000000	6.3889285905
0.955000000	6.8102760524
0.960000000	7.3076940845
0.965000000	7.9068649652
0.970000000	8.6467785966
0.975000000	9.6025026105
0.980000000	10.8928675268
0.985000000	12.7856865763
0.990000000	15.9568326320
0.995000000	23.1076851600

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

$f_z(z), F_z(z)$	Coefficient
	Mathematical Mean: 1.23831 Geometrical Mean : 1.01648 Harmonic Mean : 0.83451 Variance : 0.81454 S.D. : 0.90252 Skewed Coef. : 3.73159 Kurtosis Coef. : 47.96683 MAD : 0.60500 Range : 88.79995 Mid_range : 44.41327 Median : 1.01628 Q1 : 0.67683 Q2 : 1.01628 Q3 : 1.52642 IQR : 0.84958 C.V. : 0.72883

the critical value table

	significant level			
value	0.995	0.99	0.975	0.95
	0.1884613750	0.2271374632	0.2950472681	0.3656483653

	significant level			
value	0.05	0.025	0.01	0.005
	2.8275601454	3.5053500725	4.5569157420	5.4948796089

Note: the critical value table

0.005000000	0.1884613750
0.010000000	0.2271374632
0.015000000	0.2544335153
0.020000000	0.2763719513
0.025000000	0.2950472681
0.030000000	0.3116332546
0.035000000	0.3267152145
0.040000000	0.3406154334
0.045000000	0.3535226378
0.050000000	0.3656483653
0.055000000	0.3771539343
0.060000000	0.3881448764
0.065000000	0.3986726634
0.070000000	0.4087989198
0.075000000	0.4185840998
0.080000000	0.4280682645
0.085000000	0.4373061777
0.090000000	0.4462646249
0.095000000	0.4550151342
0.100000000	0.4635553782
0.105000000	0.4719323876
0.110000000	0.4801398058
0.115000000	0.4881964014
0.120000000	0.4961309232
0.125000000	0.5039327875
0.130000000	0.5116272764
0.135000000	0.5192118695
0.140000000	0.5266950793
0.145000000	0.5340736010
0.150000000	0.5413775211
0.155000000	0.5485950889
0.160000000	0.5557346661
0.165000000	0.5628086685
0.170000000	0.5698264076
0.175000000	0.5767822641
0.180000000	0.5837054649
0.185000000	0.5905735549
0.190000000	0.5973975357
0.195000000	0.6041725819
0.200000000	0.6109114280
0.205000000	0.6175959146
0.210000000	0.6242832050
0.215000000	0.6309359299
0.220000000	0.6375705306
0.225000000	0.6441619123
0.230000000	0.6507427438
0.235000000	0.6572925601
0.240000000	0.6638139812
0.245000000	0.6703131031
0.250000000	0.6768304584
0.255000000	0.6833199753
0.260000000	0.6898118364
0.265000000	0.6962789693
0.270000000	0.7027151007
0.275000000	0.7091677204
0.280000000	0.7156126608
0.285000000	0.7220695712
0.290000000	0.7284920062
0.295000000	0.7349206151
0.300000000	0.7413783287
0.305000000	0.7478497426
0.310000000	0.7543101535
0.315000000	0.7607831942
0.320000000	0.7672539018
0.325000000	0.7737422122
0.330000000	0.7802540027
0.335000000	0.7867712974
0.340000000	0.7932977591
0.345000000	0.7998381997
0.350000000	0.8064222385
0.355000000	0.8129912002
0.360000000	0.8195915037
0.365000000	0.8262063994
0.370000000	0.8328259263

0.3750000000	0.8394812440
0.3800000000	0.8461456559
0.3850000000	0.8528281163
0.3900000000	0.8595532113
0.3950000000	0.8662822508
0.4000000000	0.8730456104
0.4050000000	0.8798418226
0.4100000000	0.8866817999
0.4150000000	0.8935305683
0.4200000000	0.9004086001
0.4250000000	0.9073333532
0.4300000000	0.9143133561
0.4350000000	0.9213077275
0.4400000000	0.9283380427
0.4450000000	0.9354144272
0.4500000000	0.9425178726
0.4550000000	0.9496750233
0.4600000000	0.9568600753
0.4650000000	0.9641112024
0.4700000000	0.9714191438
0.4750000000	0.9787938017
0.4800000000	0.9862114372
0.4850000000	0.9936436487
0.4900000000	1.0011349363
0.4950000000	1.0086814777
0.5000000000	1.0162801962
0.5050000000	1.0239279249
0.5100000000	1.0316475293
0.5150000000	1.0394237077
0.5200000000	1.0472753086
0.5250000000	1.0551672190
0.5300000000	1.0631543510
0.5350000000	1.0711919225
0.5400000000	1.0793018748
0.5450000000	1.0874795244
0.5500000000	1.0957404285
0.5550000000	1.1040371372
0.5600000000	1.1124478105
0.5650000000	1.1209495684
0.5700000000	1.1295437807
0.5750000000	1.1382110689
0.5800000000	1.1469668471
0.5850000000	1.1558348256
0.5900000000	1.1647637493
0.5950000000	1.1737731461
0.6000000000	1.1829087142
0.6050000000	1.1921905242
0.6100000000	1.2015595527
0.6150000000	1.2110162249
0.6200000000	1.2205785176
0.6250000000	1.2303011972
0.6300000000	1.2401208347
0.6350000000	1.2500776659
0.6400000000	1.2601877157
0.6450000000	1.2703917858
0.6500000000	1.2807465322
0.6550000000	1.2912610160
0.6600000000	1.3019219732
0.6650000000	1.3127269071
0.6700000000	1.3237255047
0.6750000000	1.3348578123
0.6800000000	1.3461567244
0.6850000000	1.3576335962
0.6900000000	1.3693208006
0.6950000000	1.3811648986
0.7000000000	1.3932050279
0.7050000000	1.4054365087
0.7100000000	1.4178743118
0.7150000000	1.4305723252
0.7200000000	1.4435067661
0.7250000000	1.4566648567
0.7300000000	1.4700489177
0.7350000000	1.4836998522
0.7400000000	1.4976295743
0.7450000000	1.5118763973

0.7500000000	1.5264152922
0.7550000000	1.5411895292
0.7600000000	1.5563146181
0.7650000000	1.5718077761
0.7700000000	1.5876996728
0.7750000000	1.6039103075
0.7800000000	1.6205000951
0.7850000000	1.6375248823
0.7900000000	1.6549488731
0.7950000000	1.6728612549
0.8000000000	1.6912325250
0.8050000000	1.7101176439
0.8100000000	1.7295623489
0.8150000000	1.7495835845
0.8200000000	1.7702069128
0.8250000000	1.7914827088
0.8300000000	1.8134606353
0.8350000000	1.8360582144
0.8400000000	1.8595141780
0.8450000000	1.8837250507
0.8500000000	1.9088670509
0.8550000000	1.9350066414
0.8600000000	1.9621527313
0.8650000000	1.9904305315
0.8700000000	2.0198917963
0.8750000000	2.0507151238
0.8800000000	2.0830339175
0.8850000000	2.1169075123
0.8900000000	2.1524307260
0.8950000000	2.1899440766
0.9000000000	2.2296010150
0.9050000000	2.2716273843
0.9100000000	2.3160788037
0.9150000000	2.3636731344
0.9200000000	2.4143660840
0.9250000000	2.4691407691
0.9300000000	2.5281064921
0.9350000000	2.5925767520
0.9400000000	2.6629111499
0.9450000000	2.7407573243
0.9500000000	2.8275601454
0.9550000000	2.9246590396
0.9600000000	3.0360829466
0.9650000000	3.1652447066
0.9700000000	3.3184135099
0.9750000000	3.5053500725
0.9800000000	3.7438658256
0.9850000000	4.0675811352
0.9900000000	4.5569157420
0.9950000000	5.4948796089

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

$f_z(z), F_z(z)$	Coefficient
	Mathematical Mean: 1.28556 Geometrical Mean : 0.99999 Harmonic Mean : 0.77786 Variance : 1.17344 S.D. : 1.08326 Skewed Coef. : 4.49176 Kurtosis Coef. : 127.78680 MAD : 0.70800 Range : 278.28506 Mid_range : 139.14814 Median : 1.00005 Q1 : 0.62859 Q2 : 1.00005 Q3 : 1.59069 IQR : 0.96211 C.V. : 0.84263

the critical value table

	significant level			
value	0.995	0.99	0.975	0.95
	0.1529861956	0.1869698875	0.2484328011	0.3146677713

	significant level			
value	0.05	0.025	0.01	0.005
	3.1785765444	4.0248497060	5.3507956295	6.5429920019

Note: the critical value table

0.005000000	0.1529861956
0.010000000	0.1869698875
0.015000000	0.2113559615
0.020000000	0.2312450253
0.025000000	0.2484328011
0.030000000	0.2637917209
0.035000000	0.2778735854
0.040000000	0.2909127691
0.045000000	0.3031471233
0.050000000	0.3146677713
0.055000000	0.3256883631
0.060000000	0.3362373950
0.065000000	0.3463906353
0.070000000	0.3562126297
0.075000000	0.3657292798
0.080000000	0.3749767780
0.085000000	0.3839809254
0.090000000	0.3927797493
0.095000000	0.4013923839
0.100000000	0.4098290434
0.105000000	0.4181191820
0.110000000	0.4262893948
0.115000000	0.4343073282
0.120000000	0.4422271504
0.125000000	0.4500376940
0.130000000	0.4577389626
0.135000000	0.4653874595
0.140000000	0.4729346490
0.145000000	0.4804409764
0.150000000	0.4878507939
0.155000000	0.4952330085
0.160000000	0.5025380759
0.165000000	0.5097965583
0.170000000	0.5170089816
0.175000000	0.5241726373
0.180000000	0.5312853814
0.185000000	0.5383678054
0.190000000	0.5454141278
0.195000000	0.5524499334
0.200000000	0.5594517396
0.205000000	0.5664328378
0.210000000	0.5734064391
0.215000000	0.5803591485
0.220000000	0.5872749419
0.225000000	0.5941776556
0.230000000	0.6010696899
0.235000000	0.6079498638
0.240000000	0.6148373810
0.245000000	0.6217124130
0.250000000	0.6285863380
0.255000000	0.6354599158
0.260000000	0.6423272492
0.265000000	0.6491973767
0.270000000	0.6560718514
0.275000000	0.6629705243
0.280000000	0.6698430406
0.285000000	0.6767469724
0.290000000	0.6836419740
0.295000000	0.6905449357
0.300000000	0.6974617020
0.305000000	0.7043777548
0.310000000	0.7113317392
0.315000000	0.7182871210
0.320000000	0.7252616279
0.325000000	0.7322625476
0.330000000	0.7392792886
0.335000000	0.7463353129
0.340000000	0.7533891889
0.345000000	0.7605027716
0.350000000	0.7676228326
0.355000000	0.7747612366
0.360000000	0.7819262804
0.365000000	0.7891185397
0.370000000	0.7963467321

0.3750000000	0.8036119883
0.3800000000	0.8109318534
0.3850000000	0.8182596507
0.3900000000	0.8256432892
0.3950000000	0.8330781467
0.4000000000	0.8405276920
0.4050000000	0.8480174532
0.4100000000	0.8555607644
0.4150000000	0.8631333465
0.4200000000	0.8707561869
0.4250000000	0.8784346779
0.4300000000	0.8861657387
0.4350000000	0.8939305182
0.4400000000	0.9017475361
0.4450000000	0.9096197577
0.4500000000	0.9175505632
0.4550000000	0.9255365201
0.4600000000	0.9335674027
0.4650000000	0.9416637449
0.4700000000	0.9498094886
0.4750000000	0.9580301371
0.4800000000	0.9662715548
0.4850000000	0.9745964842
0.4900000000	0.9830122136
0.4950000000	0.9914923361
0.5000000000	1.0000530378
0.5050000000	1.0086749774
0.5100000000	1.0173789076
0.5150000000	1.0261668181
0.5200000000	1.0350432056
0.5250000000	1.0439502279
0.5300000000	1.0529830516
0.5350000000	1.0620943204
0.5400000000	1.0712983701
0.5450000000	1.0805892686
0.5500000000	1.0899947508
0.5550000000	1.0994940403
0.5600000000	1.1090550816
0.5650000000	1.1187502140
0.5700000000	1.1285663488
0.5750000000	1.1384534820
0.5800000000	1.1484712995
0.5850000000	1.1586164475
0.5900000000	1.1688588343
0.5950000000	1.1792389232
0.6000000000	1.1897170228
0.6050000000	1.2003145862
0.6100000000	1.2110898809
0.6150000000	1.2219913127
0.6200000000	1.2330379693
0.6250000000	1.2442324347
0.6300000000	1.2555772552
0.6350000000	1.2671028593
0.6400000000	1.2787747203
0.6450000000	1.2906088864
0.6500000000	1.3026509341
0.6550000000	1.3148420724
0.6600000000	1.3272358296
0.6650000000	1.3398117532
0.6700000000	1.3525670419
0.6750000000	1.3655436729
0.6800000000	1.3787028270
0.6850000000	1.3921011331
0.6900000000	1.4057460059
0.6950000000	1.4196163721
0.7000000000	1.4337471065
0.7050000000	1.4481321259
0.7100000000	1.4627909826
0.7150000000	1.4776660002
0.7200000000	1.4928918325
0.7250000000	1.5083684284
0.7300000000	1.5241477842
0.7350000000	1.5402253227
0.7400000000	1.5566936832
0.7450000000	1.5734852919

0.750000000	1.5906943664
0.755000000	1.6083206982
0.760000000	1.6262758116
0.765000000	1.6447238259
0.770000000	1.6635854272
0.775000000	1.6828946190
0.780000000	1.7026900401
0.785000000	1.7230804073
0.790000000	1.7438693197
0.795000000	1.7653154955
0.800000000	1.7873250283
0.805000000	1.8099666964
0.810000000	1.8332497307
0.815000000	1.8572652384
0.820000000	1.8820029415
0.825000000	1.9075895079
0.830000000	1.9340718557
0.835000000	1.9613775516
0.840000000	1.9897085098
0.845000000	2.0190204131
0.850000000	2.0495331957
0.855000000	2.0812076415
0.860000000	2.1140953000
0.865000000	2.1483686415
0.870000000	2.1842990658
0.875000000	2.2216527481
0.880000000	2.2608755578
0.885000000	2.3021611541
0.890000000	2.3455802849
0.895000000	2.3912641398
0.900000000	2.4395681610
0.905000000	2.4909024043
0.910000000	2.5457309444
0.915000000	2.6043297581
0.920000000	2.6669818268
0.925000000	2.7343660430
0.930000000	2.8074823371
0.935000000	2.8872955538
0.940000000	2.9747363927
0.945000000	3.0709785972
0.950000000	3.1785765444
0.955000000	3.2994203311
0.960000000	3.4379024010
0.965000000	3.5992319216
0.970000000	3.7909719407
0.975000000	4.0248497060
0.980000000	4.3242912004
0.985000000	4.7316668368
0.990000000	5.3507956295
0.995000000	6.5429920019

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

$f_z(z), F_z(z)$	Coefficient
	Mathematical Mean: 1.11763 Geometrical Mean : 0.99999 Harmonic Mean : 0.89472 Variance : 0.31549 S.D. : 0.56169 Skewed Coef. : 1.76973 Kurtosis Coef. : 9.62607 MAD : 0.41518 Range : 19.41179 Mid_range : 9.76553 Median : 1.00002 Q1 : 0.73038 Q2 : 1.00002 Q3 : 1.36916 IQR : 0.63878 C.V. : 0.50257

the critical value table

	significant level			
value	0.995	0.99	0.975	0.95
	0.2913288511	0.3302837415	0.3958002838	0.4612238989

	significant level			
value	0.05	0.025	0.01	0.005
	2.1682582876	2.5268351612	3.0274483621	3.4320816158

Note: the critical value table

0.005000000	0.2913288511
0.010000000	0.3302837415
0.015000000	0.3569694175
0.020000000	0.3780094172
0.025000000	0.3958002838
0.030000000	0.4114192255
0.035000000	0.4254379381
0.040000000	0.4382534237
0.045000000	0.4501241802
0.050000000	0.4612238989
0.055000000	0.4716902828
0.060000000	0.4816329906
0.065000000	0.4911137174
0.070000000	0.5001826912
0.075000000	0.5089068146
0.080000000	0.5173482727
0.085000000	0.5255207088
0.090000000	0.5334693780
0.095000000	0.5412015988
0.100000000	0.5487059008
0.105000000	0.5560592516
0.110000000	0.5632230842
0.115000000	0.5702384775
0.120000000	0.5771309073
0.125000000	0.5838955088
0.130000000	0.5905553852
0.135000000	0.5971044737
0.140000000	0.6035481770
0.145000000	0.6099111157
0.150000000	0.6161880703
0.155000000	0.6223890165
0.160000000	0.6285185352
0.165000000	0.6345662174
0.170000000	0.6405575527
0.175000000	0.6464918608
0.180000000	0.6523587581
0.185000000	0.6581864247
0.190000000	0.6639479359
0.195000000	0.6696648051
0.200000000	0.6753520430
0.205000000	0.6809965746
0.210000000	0.6865942016
0.215000000	0.6921650178
0.220000000	0.6976934924
0.225000000	0.7031855652
0.230000000	0.7086698991
0.235000000	0.7141428218
0.240000000	0.7195756998
0.245000000	0.7249883026
0.250000000	0.7303785841
0.255000000	0.7357453837
0.260000000	0.7410974149
0.265000000	0.7464167586
0.270000000	0.7517369656
0.275000000	0.7570320225
0.280000000	0.7623307656
0.285000000	0.7676075604
0.290000000	0.7728852976
0.295000000	0.7781494934
0.300000000	0.7834085108
0.305000000	0.7886778119
0.310000000	0.7939208007
0.315000000	0.7991619411
0.320000000	0.8044012305
0.325000000	0.8096386779
0.330000000	0.8148896084
0.335000000	0.8201296385
0.340000000	0.8253735102
0.345000000	0.8306249311
0.350000000	0.8358875260
0.355000000	0.8411467654
0.360000000	0.8464171084
0.365000000	0.8516879966
0.370000000	0.8569525012

0.3750000000	0.8622509327
0.3800000000	0.8675497836
0.3850000000	0.8728630537
0.3900000000	0.8781764133
0.3950000000	0.8835006692
0.4000000000	0.8888529087
0.4050000000	0.8942240724
0.4100000000	0.8995905711
0.4150000000	0.9049917502
0.4200000000	0.9103955064
0.4250000000	0.9158154435
0.4300000000	0.9212593891
0.4350000000	0.9267365223
0.4400000000	0.9322283281
0.4450000000	0.9377323107
0.4500000000	0.9432590055
0.4550000000	0.9488210227
0.4600000000	0.9544062659
0.4650000000	0.9600034802
0.4700000000	0.9656579883
0.4750000000	0.9713195997
0.4800000000	0.9770240600
0.4850000000	0.9827313792
0.4900000000	0.9884677988
0.4950000000	0.9942305464
0.5000000000	1.0000232479
0.5050000000	1.0058695739
0.5100000000	1.0117203217
0.5150000000	1.0176253597
0.5200000000	1.0235906744
0.5250000000	1.0295905689
0.5300000000	1.0356180007
0.5350000000	1.0416915827
0.5400000000	1.0478012229
0.5450000000	1.0539486816
0.5500000000	1.0601367133
0.5550000000	1.0663820670
0.5600000000	1.0726912881
0.5650000000	1.0790583972
0.5700000000	1.0854548431
0.5750000000	1.0919178882
0.5800000000	1.0984246941
0.5850000000	1.1050070821
0.5900000000	1.1116363386
0.5950000000	1.1183172520
0.6000000000	1.1250691467
0.6050000000	1.1318873095
0.6100000000	1.1387528276
0.6150000000	1.1457039353
0.6200000000	1.1527026945
0.6250000000	1.1597968266
0.6300000000	1.1669458827
0.6350000000	1.1741714428
0.6400000000	1.1814792768
0.6450000000	1.1888702025
0.6500000000	1.1963554924
0.6550000000	1.2039422507
0.6600000000	1.2115934662
0.6650000000	1.2193362231
0.6700000000	1.2271874269
0.6750000000	1.2351290841
0.6800000000	1.2431755508
0.6850000000	1.2513238946
0.6900000000	1.2595716574
0.6950000000	1.2679736527
0.7000000000	1.2764912334
0.7050000000	1.2851204937
0.7100000000	1.2938916659
0.7150000000	1.3027689282
0.7200000000	1.3117741118
0.7250000000	1.3209249319
0.7300000000	1.3302594437
0.7350000000	1.3397215562
0.7400000000	1.3493737451
0.7450000000	1.3591826711

0.7500000000	1.3691611534
0.7550000000	1.3793705999
0.7600000000	1.3897277240
0.7650000000	1.4002367859
0.7700000000	1.4110277382
0.7750000000	1.4220203144
0.7800000000	1.4331977314
0.7850000000	1.4446794776
0.7900000000	1.4563838213
0.7950000000	1.4683545632
0.8000000000	1.4805987326
0.8050000000	1.4931551619
0.8100000000	1.5060035910
0.8150000000	1.5192158035
0.8200000000	1.5327516825
0.8250000000	1.5466707289
0.8300000000	1.5609722095
0.8350000000	1.5756669178
0.8400000000	1.5908413812
0.8450000000	1.6065098728
0.8500000000	1.6226764792
0.8550000000	1.6393580487
0.8600000000	1.6566007620
0.8650000000	1.6745223722
0.8700000000	1.6930797574
0.8750000000	1.7123293505
0.8800000000	1.7324275359
0.8850000000	1.7533873915
0.8900000000	1.7752732941
0.8950000000	1.7982135285
0.9000000000	1.8223169405
0.9050000000	1.8476178991
0.9100000000	1.8743212940
0.9150000000	1.9026397834
0.9200000000	1.9326715026
0.9250000000	1.9647662959
0.9300000000	1.9990686139
0.9350000000	2.0361412514
0.9400000000	2.0762603752
0.9450000000	2.1200225838
0.9500000000	2.1682582876
0.9550000000	2.2218490610
0.9600000000	2.2821555108
0.9650000000	2.3509772154
0.9700000000	2.4311861423
0.9750000000	2.5268351612
0.9800000000	2.6455740257
0.9850000000	2.8018199583
0.9900000000	3.0274483621
0.9950000000	3.4320816158

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

$f_z(z), F_z(z)$	Coefficient
	Mathematical Mean: 1.07406 Geometrical Mean : 0.99998 Harmonic Mean : 0.93101 Variance : 0.17820 S.D. : 0.42214 Skewed Coef. : 1.29638 Kurtosis Coef. : 6.32964 MAD : 0.32124 Range : 9.43562 Mid_range : 4.81227 Median : 1.00003 Q1 : 0.77642 Q2 : 1.00003 Q3 : 1.28793 IQR : 0.51151 C.V. : 0.39303

the critical value table

	significant level			
value	0.995	0.99	0.975	0.95
	0.3739614942	0.4124930235	0.4759673772	0.5373718205

	significant level			
value	0.05	0.025	0.01	0.005
	1.8605893155	2.1007949404	2.4229619190	2.6737667692

Note: the critical value table

0.005000000	0.3739614942
0.010000000	0.4124930235
0.015000000	0.4385754716
0.020000000	0.4589565042
0.025000000	0.4759673772
0.030000000	0.4907455252
0.035000000	0.5039642869
0.040000000	0.5159775512
0.045000000	0.5270619201
0.050000000	0.5373718205
0.055000000	0.5470631305
0.060000000	0.5562292508
0.065000000	0.5649216151
0.070000000	0.5732601808
0.075000000	0.5812531673
0.080000000	0.5889319712
0.085000000	0.5963685389
0.090000000	0.6035495643
0.095000000	0.6105019202
0.100000000	0.6172521472
0.105000000	0.6238425370
0.110000000	0.6302900877
0.115000000	0.6365711804
0.120000000	0.6427400306
0.125000000	0.6487680485
0.130000000	0.6546754688
0.135000000	0.6604765674
0.140000000	0.6661798204
0.145000000	0.6717880055
0.150000000	0.6773388231
0.155000000	0.6828138305
0.160000000	0.6882016479
0.165000000	0.6935132594
0.170000000	0.6987514720
0.175000000	0.7039477274
0.180000000	0.7090772780
0.185000000	0.7141416925
0.190000000	0.7191572837
0.195000000	0.7241358854
0.200000000	0.7290597553
0.205000000	0.7339446200
0.210000000	0.7387917674
0.215000000	0.7436036404
0.220000000	0.7483720303
0.225000000	0.7531246750
0.230000000	0.7578401140
0.235000000	0.7625179319
0.240000000	0.7671834521
0.245000000	0.7718077934
0.250000000	0.7764189779
0.255000000	0.7810145221
0.260000000	0.7855733697
0.265000000	0.7901208056
0.270000000	0.7946566483
0.275000000	0.7991680801
0.280000000	0.8036781303
0.285000000	0.8081521165
0.290000000	0.8126182141
0.295000000	0.8170673084
0.300000000	0.8215083668
0.305000000	0.8259343038
0.310000000	0.8303570030
0.315000000	0.8347818008
0.320000000	0.8391809332
0.325000000	0.8435610655
0.330000000	0.8479651085
0.335000000	0.8523787330
0.340000000	0.8567566258
0.345000000	0.8611255380
0.350000000	0.8655044600
0.355000000	0.8698785577
0.360000000	0.8742632310
0.365000000	0.8786447674
0.370000000	0.8830363677

0.3750000000	0.8874220742
0.3800000000	0.8918042474
0.3850000000	0.8962062088
0.3900000000	0.9006053812
0.3950000000	0.9050148121
0.4000000000	0.9094243251
0.4050000000	0.9138467062
0.4100000000	0.9182851797
0.4150000000	0.9227222973
0.4200000000	0.9271564896
0.4250000000	0.9316119613
0.4300000000	0.9360680312
0.4350000000	0.9405546942
0.4400000000	0.9450432936
0.4450000000	0.9495338880
0.4500000000	0.9540571778
0.4550000000	0.9585936937
0.4600000000	0.9631136259
0.4650000000	0.9676599885
0.4700000000	0.9722349831
0.4750000000	0.9768125925
0.4800000000	0.9814155410
0.4850000000	0.9860263882
0.4900000000	0.9906736512
0.4950000000	0.9953452582
0.5000000000	1.0000281586
0.5050000000	1.0047277267
0.5100000000	1.0094529718
0.5150000000	1.0142076072
0.5200000000	1.0189891951
0.5250000000	1.0237949379
0.5300000000	1.0286181737
0.5350000000	1.0334724856
0.5400000000	1.0383734953
0.5450000000	1.0432917225
0.5500000000	1.0482398085
0.5550000000	1.0532193136
0.5600000000	1.0582235739
0.5650000000	1.0632733064
0.5700000000	1.0683508864
0.5750000000	1.0734561686
0.5800000000	1.0786014654
0.5850000000	1.0838025801
0.5900000000	1.0890339602
0.5950000000	1.0943141126
0.6000000000	1.0996202694
0.6050000000	1.1049684342
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