臺灣綜合大學系統113學年度學士班轉學生聯合招生考試試題

科目名稱	統計學	類組代碼	B11
		科目碼	B1192

※本項考試依簡章規定所有考科均「不可」使用計算機。　　本科試題共計 8 頁

INSTRUCTIONS

第 1 題~第 16 題，每題 5 分；第 17 題~第 21 題，每題 4 分。

- Circle the best answer out of five for each question.

Refer to the following for questions 1 to 4.

College students like to visit an exhibition park for fun rides and activities, and not to mention the delicious foods. Derived from the data collection by a team of event analysts, it is know so far that:

50% of the visitors buy turkey sandwiches;

40% of the visitors buy barbequed hotdogs;

30% of the visitors buy bubble tea;

15% of the visitors buy turkey sandwiches and barbequed hotdogs;

12% of the visitors buy barbequed hotdogs and bubble tea;

60% of the visitors buy turkey sandwiches or bubble tea;

4% of the visitors buy turkey sandwiches and barbequed hotdogs and bubble tea.

1. What is the probability that of a random sample of 10 visitors there are exactly 6 of them buying turkey sandwiches and bubble tea?

(A) $1 - \binom{10}{6}(0.2)^6(0.8)^4$　(B) $e^{-6} \times 6^{10}/10!$　(C) $e^{-2} \times 2^6/6!$

(D) $\binom{10}{6}(0.2)^6(0.8)^4$　(E) $\binom{10}{6}(0.6)^6(0.4)^4$

2. What is the approximate probability that in a random sample one hundred visitors there are at least twenty five of them buy turkey sandwiches and bubble tea?

(A) almost 1　(B) almost 0　(C) 0.1303　(D) 0.25　(E) 0.0155

3. Which of the following statements is true based on the information given in the above?

(A) A visitor buying barbequed hotdogs or not is independent of another randomly chosen visitor buying bubble tea or not.

(B) A visitor buying barbequed hotdogs or not is independent of another randomly chosen visitor buying turkey sandwiches or not.

(C) A visitor buying turkey sandwiches or not is independent of another randomly chosen visitor buying bubble tea or not.

(D) A visitor buying turkey sandwiches will always buy bubble tea.

(E) None of the above is true.

4. What is the probability that a randomly selected visitor buys exactly one of the three foods?

(A) 0.33 (B) 0.35 (C) 0.38 (D) 0.39 (E) 0.41

Refer to the following for questions 5 to 8.

The probability distribution of some variable X has the density of exactly half of a circle as shown in figure 1, the distribution has a mean of zero and variance $(2\pi)^{-1}$. It is known that the area of a circle with radius r is πr^2,

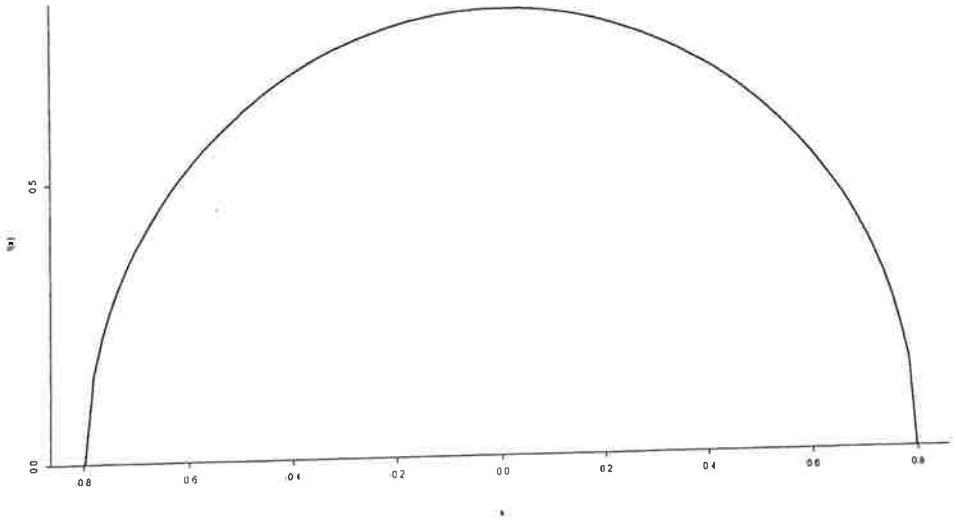


Figure 1: semicircle distribution

5. what is the value of $f(x)$ at $x = 0$?

(A) $\pi/2$ (B) $\pi/4$ (C) $\sqrt{2/\pi}$ (D) $\sqrt{\pi/2}$ (E) $\sqrt{\pi/4}$

6. Construct a histogram for a random sample of 500 observations generated from this distribution, the histogram is expected to have a shape

(A) close to normal with mean zero and variance $(2\pi)^{-1}$.

(B) close to normal with mean zero and variance $(1000\pi)^{-1/2}$.

(C) close to a semi-circle with a mean zero and variance $(1000\pi)^{-1/2}$.

(D) close to a semi-circle with a mean zero and variance $(2\pi)^{-1}$.

(E) close to a semi-circle with a mean zero and variance $(1000\pi)^{-1}$.

背面有題，請繼續作答。

7. Suppose we generate a random sample of 100 observations from this distribution and obtain their sample mean, repeat the sampling procedure 1000 times, the histogram of the sample means is expected to have a shape

(A) close to normal with mean zero and variance $(200\pi)^{-1}$.

(B) close to normal with mean zero and variance $(2000\pi)^{-1/2}$.

(C) close to normal with mean zero and variance $(200\pi)^{-2}$.

(D) close to normal with mean zero and variance $(20\pi)^{-1}$.

(E) close to a semi-circle with a mean zero and variance $(2\pi)^{-1}$.

8. Suppose we generate a random sample of a single observation X from the distribution, what is the probability $P(X > 0)$?

(A) 0.7 (B) 0.5 (C) 0.4 (D) 0.6 (E) 0.8

Refer to the following for questions 9 to 11.

Carbon Monoxide (CO) is a colourless and odourless gas. Even at low levels of exposure, carbon monoxide can cause serious health problems. A home is considered safe if it has multiple CO detectors installed. The National Health Research Institute would like to conduct household surveys to learn about the proportion p of homes in Tainan being safe from CO poisoning.

9. It has been discovered that 10 of 100 randomly selected homes in Tainan is safe from CO poisoning. Which of the following is a 90% confidence interval for p?

(A) $(0.051, 0.149)$ (B) $(-0.022, 0.222)$ (C) $(0.030, 0.170)$ (D) $(0.062, 0.138)$

(E) $(-0.056, 0.256)$

10. How large an approximate sample size is needed to construct a 96% confidence interval for the proportion of homes in Tainan which is safe from CO poisoning with a margin of error smaller than 0.03?

(A) 851 (B) 861 (C) 1170 (D) 1166

(E) It is impossible to determine with the given information.

11. How large an approximate sample size is needed to reduce the margin of error in the previous question to 0.01 or smaller?

(A) 390 (B) 3498 (C) 10530 (D) 130

(E) It is impossible to determine with the given information.

12. For the following sequence of random digits,

98601 73022 83448 02147 34229 27553 84147 _____ 93289 14209

What is the probability that the missing five digits be 06537?

(A) 1/10 (B) 1/50 (C) 5/10 (D) 1/100000

(E) It is not possible for the missing digits to start with 0.

Refer to the following for the next nine questions (13 and 16).

The owner of a coffee shop did a weekly accounting on daily sales generated from the past seven days of business, let X_i be the daily sales (to the nearest dollars) for $i = 1, \ldots, 9$, the sales data is reported as

Sales 2469 3193 2894 3220 2878 2156 2660 2365 2951

with $\sum_{i=1}^{n} X_i = 24,786$, $\sum_{i=1}^{n} X_i^2 = 69,343,292$ and $\sum_{i=1}^{n}(X_i - \overline{X})^2 = 1,082,648$, where the number of observations in the sample is denoted by n, and the sample mean of the sales data is denoted by $\overline{X}$. Let the true mean daily sales be denoted by $E[X_i]$ and $\text{Var}(X_i) = \sigma_X^2$, and sample variance of the sales data be S_X^2. While assuming that daily sales follows a normal distribution, the owner of the shop would like to conduct a test on the null hypothesis stating that the true mean daily sales of the shop is greater than or equal to 2,500 at the type I error rate of 0.05.

13. The observed value of an appropriate statistic to be used for the testing of hypotheses is

(A) unobtainable for σ_X^2 is unknown (B) 1.735 (C) 0.043 (D) 0.690

(E) 2.071

背面有題，請繼續作答。

14. The distribution of the test statistic being used in question 13 is

(A) of the Student's t-distribution associated with degrees of freedom 8.

(B) of the chi-square distribution associated with degrees of freedom 8.

(C) of the normal distribution with mean 0 and variance 1.

(D) of the Snedecor's f-distribution associated with degrees of freedom 1 in the numerator and 7 in the denominator.

(E) not known.

15. The p-value for the observed value of the appropriate test statistic is

(A) greater than 0.1 (B) smaller than 0.01 (C) between 0.025 and 0.05

(D) between 0.05 and 0.1 (E) unavailable from the given tables

16. The decision of the test is

(A) indecisive based on the available information.

(B) to conclude the alternative hypothesis.

(C) to reject the alternative hypothesis.

(D) to reject the null hypothesis.

(E) to not reject the null hypothesis.

Suppose the coffee shop owner has a hobby of keeping track of daily sales and amount of snowfall especially in the winter season, here is the amount of snowfall (in centimeters) for that particular set of sales data

Sales	2469	3193	2894	3220	2878	2156	2660	2365	2951
Snowfall	1	5	6	8	1	0	0	2	4

The shop owner came up with an idea, based on what she learned long ago in a statistical course, of using a simple linear regression model in attempt to make prediction of amount of snowfall using daily sales while assuming the random error in the model is normal. Let the ith observation of the response variable be denoted by Y_i and of the explanatory variable be denoted by X_i, observe the statistic $\sum_{i=1}^{n}(X_i - \overline{X})(Y_i - \overline{Y}) = 6,612$,

科目名稱	統計學	類組代碼	B11
		科目碼	B1192

※本項考試依簡章規定所有考科均「不可」使用計算機。 本科試題共計 8 頁

17. the sample correlation coefficient between Daily Sales and Snowfall is

(A) 0.7822 (B) −0.623 (C) −0.6118 (D) 0.6118 (E) 0.623

18. The estimated slope coefficient of the model is

(A) 0.0061 (B) 2453.5 (C) −13.82 (D) 100.2 (E) 163.7

19. The residual value of the observation with Sales being 2660 is

(A) −206.5 (B) −2.43 (C) −268937.1 (D) −2.06 (E) 206.5

20. The observed value of an appropriate statistic to be used for testing the null hypotheses stating that the true slope coefficient is 0 is

(A) 3.66 (B) −2.71 (C) 3.32 (D) 20.13 (E) 0.013

21. A weather expert had a laugh at the idea of running a regression model on the two variables snowfall and daily sales, as he knew that atmospheric humidity would be a better choice to be included as one of the explanatory variables in the model. According to the expert, what type of variable is atmospheric humidity considered to be for the regression model?

(A) response variable (B) confounding variable (C) lurking variable

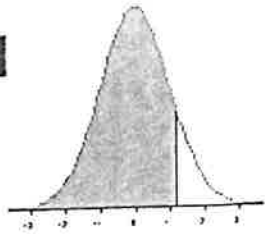
(D) blocking variable. (E) a main effect

背面有題，請繼續作答。

Table 1: Table of the Standard Normal cumulative distribution function $\Phi(z)$

z	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
-3.4	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0002
-3.3	0.0005	0.0005	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0003
-3.2	0.0007	0.0007	0.0006	0.0006	0.0006	0.0006	0.0006	0.0005	0.0005	0.0005
-3.1	0.0010	0.0009	0.0009	0.0009	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007
-3.0	0.0013	0.0013	0.0013	0.0012	0.0012	0.0011	0.0011	0.0011	0.0010	0.0010
-2.9	0.0019	0.0018	0.0018	0.0017	0.0016	0.0016	0.0015	0.0015	0.0014	0.0014
-2.8	0.0026	0.0025	0.0024	0.0023	0.0023	0.0022	0.0021	0.0021	0.0020	0.0019
-2.7	0.0035	0.0034	0.0033	0.0032	0.0031	0.0030	0.0029	0.0028	0.0027	0.0026
-2.6	0.0047	0.0045	0.0044	0.0043	0.0041	0.0040	0.0039	0.0038	0.0037	0.0036
-2.5	0.0062	0.0060	0.0059	0.0057	0.0055	0.0054	0.0052	0.0051	0.0049	0.0048
-2.4	0.0082	0.0080	0.0078	0.0075	0.0073	0.0071	0.0069	0.0068	0.0066	0.0064
-2.3	0.0107	0.0104	0.0102	0.0099	0.0096	0.0094	0.0091	0.0089	0.0087	0.0084
-2.2	0.0139	0.0136	0.0132	0.0129	0.0125	0.0122	0.0119	0.0116	0.0113	0.0110
-2.1	0.0179	0.0174	0.0170	0.0166	0.0162	0.0158	0.0154	0.0150	0.0146	0.0143
-2.0	0.0228	0.0222	0.0217	0.0212	0.0207	0.0202	0.0197	0.0192	0.0188	0.0183
-1.9	0.0287	0.0281	0.0274	0.0268	0.0262	0.0256	0.0250	0.0244	0.0239	0.0233
-1.8	0.0359	0.0351	0.0344	0.0336	0.0329	0.0322	0.0314	0.0307	0.0301	0.0294
-1.7	0.0446	0.0436	0.0427	0.0418	0.0409	0.0401	0.0392	0.0384	0.0375	0.0367
-1.6	0.0548	0.0537	0.0526	0.0516	0.0505	0.0495	0.0485	0.0475	0.0465	0.0455
-1.5	0.0668	0.0655	0.0643	0.0630	0.0618	0.0606	0.0594	0.0582	0.0571	0.0559
-1.4	0.0808	0.0793	0.0778	0.0764	0.0749	0.0735	0.0721	0.0708	0.0694	0.0681
-1.3	0.0968	0.0951	0.0934	0.0918	0.0901	0.0885	0.0869	0.0853	0.0838	0.0823
-1.2	0.1151	0.1131	0.1112	0.1093	0.1075	0.1056	0.1038	0.1020	0.1003	0.0985
-1.1	0.1357	0.1335	0.1314	0.1292	0.1271	0.1251	0.1230	0.1210	0.1190	0.1170
-1.0	0.1587	0.1562	0.1539	0.1515	0.1492	0.1469	0.1446	0.1423	0.1401	0.1379
-0.9	0.1841	0.1814	0.1788	0.1762	0.1736	0.1711	0.1685	0.1660	0.1635	0.1611
-0.8	0.2119	0.2090	0.2061	0.2033	0.2005	0.1977	0.1949	0.1922	0.1894	0.1867
-0.7	0.2420	0.2389	0.2358	0.2327	0.2296	0.2266	0.2236	0.2206	0.2177	0.2148
-0.6	0.2743	0.2709	0.2676	0.2643	0.2611	0.2578	0.2546	0.2514	0.2483	0.2451
-0.5	0.3085	0.3050	0.3015	0.2981	0.2946	0.2912	0.2877	0.2843	0.2810	0.2776
-0.4	0.3446	0.3409	0.3372	0.3336	0.3300	0.3264	0.3228	0.3192	0.3156	0.3121
-0.3	0.3821	0.3783	0.3745	0.3707	0.3669	0.3632	0.3594	0.3557	0.3520	0.3483
-0.2	0.4207	0.4168	0.4129	0.4090	0.4052	0.4013	0.3974	0.3936	0.3897	0.3859
-0.1	0.4602	0.4562	0.4522	0.4483	0.4443	0.4404	0.4364	0.4325	0.4286	0.4247
-0.0	0.5000	0.4960	0.4920	0.4880	0.4840	0.4801	0.4761	0.4721	0.4681	0.4641
0.0	0.5000	0.5040	0.5080	0.5120	0.5160	0.5199	0.5239	0.5279	0.5319	0.5359
0.1	0.5398	0.5438	0.5478	0.5517	0.5557	0.5596	0.5636	0.5675	0.5714	0.5753
0.2	0.5793	0.5832	0.5871	0.5910	0.5948	0.5987	0.6026	0.6064	0.6103	0.6141
0.3	0.6179	0.6217	0.6255	0.6293	0.6331	0.6368	0.6406	0.6443	0.6480	0.6517
0.4	0.6554	0.6591	0.6628	0.6664	0.6700	0.6736	0.6772	0.6808	0.6844	0.6879
0.5	0.6915	0.6950	0.6985	0.7019	0.7054	0.7088	0.7123	0.7157	0.7190	0.7224
0.6	0.7257	0.7291	0.7324	0.7357	0.7389	0.7422	0.7454	0.7486	0.7517	0.7549
0.7	0.7580	0.7611	0.7642	0.7673	0.7704	0.7734	0.7764	0.7794	0.7823	0.7852
0.8	0.7881	0.7910	0.7939	0.7967	0.7995	0.8023	0.8051	0.8078	0.8106	0.8133
0.9	0.8159	0.8186	0.8212	0.8238	0.8264	0.8289	0.8315	0.8340	0.8365	0.8389
1.0	0.8413	0.8438	0.8461	0.8485	0.8508	0.8531	0.8554	0.8577	0.8599	0.8621
1.1	0.8643	0.8665	0.8686	0.8708	0.8729	0.8749	0.8770	0.8790	0.8810	0.8830
1.2	0.8849	0.8869	0.8888	0.8907	0.8925	0.8944	0.8962	0.8980	0.8997	0.9015
1.3	0.9032	0.9049	0.9066	0.9082	0.9099	0.9115	0.9131	0.9147	0.9162	0.9177
1.4	0.9192	0.9207	0.9222	0.9236	0.9251	0.9265	0.9279	0.9292	0.9306	0.9319
1.5	0.9332	0.9345	0.9357	0.9370	0.9382	0.9394	0.9406	0.9418	0.9429	0.9441
1.6	0.9452	0.9463	0.9474	0.9484	0.9495	0.9505	0.9515	0.9525	0.9535	0.9545
1.7	0.9554	0.9564	0.9573	0.9582	0.9591	0.9599	0.9608	0.9616	0.9625	0.9633
1.8	0.9641	0.9649	0.9656	0.9664	0.9671	0.9678	0.9686	0.9693	0.9699	0.9706
1.9	0.9713	0.9719	0.9726	0.9732	0.9738	0.9744	0.9750	0.9756	0.9761	0.9767
2.0	0.9772	0.9778	0.9783	0.9788	0.9793	0.9798	0.9803	0.9808	0.9812	0.9817
2.1	0.9821	0.9826	0.9830	0.9834	0.9838	0.9842	0.9846	0.9850	0.9854	0.9857
2.2	0.9861	0.9864	0.9868	0.9871	0.9875	0.9878	0.9881	0.9884	0.9887	0.9890
2.3	0.9893	0.9896	0.9898	0.9901	0.9904	0.9906	0.9909	0.9911	0.9913	0.9916
2.4	0.9918	0.9920	0.9922	0.9925	0.9927	0.9929	0.9931	0.9932	0.9934	0.9936
2.5	0.9938	0.9940	0.9941	0.9943	0.9945	0.9946	0.9948	0.9949	0.9951	0.9952
2.6	0.9953	0.9955	0.9956	0.9957	0.9959	0.9960	0.9961	0.9962	0.9963	0.9964
2.7	0.9965	0.9966	0.9967	0.9968	0.9969	0.9970	0.9971	0.9972	0.9973	0.9974
2.8	0.9974	0.9975	0.9976	0.9977	0.9977	0.9978	0.9979	0.9979	0.9980	0.9981
2.9	0.9981	0.9982	0.9982	0.9983	0.9984	0.9984	0.9985	0.9985	0.9986	0.9986
3.0	0.9987	0.9987	0.9987	0.9988	0.9988	0.9989	0.9989	0.9989	0.9990	0.9990
3.1	0.9990	0.9991	0.9991	0.9991	0.9992	0.9992	0.9992	0.9992	0.9993	0.9993
3.2	0.9993	0.9993	0.9994	0.9994	0.9994	0.9994	0.9994	0.9995	0.9995	0.9995
3.3	0.9995	0.9995	0.9995	0.9996	0.9996	0.9996	0.9996	0.9996	0.9996	0.9997
3.4	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9998

Student's t-distribution table



	p										
df	0.75	0.80	0.85	0.90	0.95	0.975	0.980	0.990	0.995	0.9975	0.9990
1	1.0000	1.3764	1.9626	3.0777	6.3137	12.706	15.895	31.821	63.656	127.32	318.29
2	0.8165	1.0607	1.3862	1.8856	2.9200	4.3027	4.8487	6.9645	9.9250	14.089	22.329
3	0.7649	0.9785	1.2498	1.6377	2.3534	3.1824	3.4819	4.5407	5.8408	7.4532	10.214
4	0.7407	0.9410	1.1896	1.5332	2.1318	2.7765	2.9985	3.7469	4.6041	5.5975	7.1729
5	0.7267	0.9195	1.1558	1.4759	2.0150	2.5706	2.7565	3.3649	4.0321	4.7733	5.8935
6	0.7176	0.9057	1.1342	1.4398	1.9432	2.4469	2.6122	3.1427	3.7074	4.3168	5.2075
7	0.7111	0.8960	1.1192	1.4149	1.8946	2.3646	2.5168	2.9979	3.4995	4.0294	4.7853
8	0.7064	0.8889	1.1081	1.3968	1.8595	2.3060	2.4490	2.8965	3.3554	3.8325	4.5008
9	0.7027	0.8834	1.0997	1.3830	1.8331	2.2622	2.3984	2.8214	3.2498	3.6896	4.2969
10	0.6998	0.8791	1.0931	1.3722	1.8125	2.2281	2.3593	2.7638	3.1693	3.5814	4.1437
11	0.6974	0.8755	1.0877	1.3634	1.7959	2.2010	2.3281	2.7181	3.1058	3.4966	4.0248
12	0.6955	0.8726	1.0832	1.3562	1.7823	2.1788	2.3027	2.6810	3.0545	3.4284	3.9296
13	0.6938	0.8702	1.0795	1.3502	1.7709	2.1604	2.2816	2.6503	3.0123	3.3725	3.8520
14	0.6924	0.8681	1.0763	1.3450	1.7613	2.1448	2.2638	2.6245	2.9768	3.3257	3.7874
15	0.6912	0.8662	1.0735	1.3406	1.7531	2.1315	2.2485	2.6025	2.9467	3.2860	3.7329
16	0.6901	0.8647	1.0711	1.3368	1.7459	2.1199	2.2354	2.5835	2.9208	3.2520	3.6861
17	0.6892	0.8633	1.0690	1.3334	1.7396	2.1098	2.2238	2.5669	2.8982	3.2224	3.6458
18	0.6884	0.8620	1.0672	1.3304	1.7341	2.1009	2.2137	2.5524	2.8784	3.1966	3.6105
19	0.6876	0.8610	1.0655	1.3277	1.7291	2.0930	2.2047	2.5395	2.8609	3.1737	3.5793
20	0.6870	0.8600	1.0640	1.3253	1.7247	2.0860	2.1967	2.5280	2.8453	3.1534	3.5518
21	0.6864	0.8591	1.0627	1.3232	1.7207	2.0796	2.1894	2.5176	2.8314	3.1352	3.5271
22	0.6858	0.8583	1.0614	1.3212	1.7171	2.0739	2.1829	2.5083	2.8188	3.1188	3.5050
23	0.6853	0.8575	1.0603	1.3195	1.7139	2.0687	2.1770	2.4999	2.8073	3.1040	3.4850
24	0.6848	0.8569	1.0593	1.3178	1.7109	2.0639	2.1715	2.4922	2.7970	3.0905	3.4668
25	0.6844	0.8562	1.0584	1.3163	1.7081	2.0595	2.1666	2.4851	2.7874	3.0782	3.4502
26	0.6840	0.8557	1.0575	1.3150	1.7056	2.0555	2.1620	2.4786	2.7787	3.0669	3.4350
27	0.6837	0.8551	1.0567	1.3137	1.7033	2.0518	2.1578	2.4727	2.7707	3.0565	3.4210
28	0.6834	0.8546	1.0560	1.3125	1.7011	2.0484	2.1539	2.4671	2.7633	3.0470	3.4082
29	0.6830	0.8542	1.0553	1.3114	1.6991	2.0452	2.1503	2.4620	2.7564	3.0380	3.3963
30	0.6828	0.8538	1.0547	1.3104	1.6973	2.0423	2.1470	2.4573	2.7500	3.0298	3.3852
31	0.6825	0.8534	1.0541	1.3095	1.6955	2.0395	2.1438	2.4528	2.7440	3.0221	3.3749
32	0.6822	0.8530	1.0535	1.3086	1.6939	2.0369	2.1409	2.4487	2.7385	3.0149	3.3653
33	0.6820	0.8526	1.0530	1.3077	1.6924	2.0345	2.1382	2.4448	2.7333	3.0082	3.3563
34	0.6818	0.8523	1.0525	1.3070	1.6909	2.0322	2.1356	2.4411	2.7284	3.0020	3.3480
35	0.6816	0.8520	1.0520	1.3062	1.6896	2.0301	2.1332	2.4377	2.7238	2.9961	3.3400
36	0.6814	0.8517	1.0516	1.3055	1.6883	2.0281	2.1309	2.4345	2.7195	2.9905	3.3326
37	0.6812	0.8514	1.0512	1.3049	1.6871	2.0262	2.1287	2.4314	2.7154	2.9853	3.3256
38	0.6810	0.8512	1.0508	1.3042	1.6860	2.0244	2.1267	2.4286	2.7116	2.9803	3.3190
39	0.6808	0.8509	1.0504	1.3036	1.6849	2.0227	2.1247	2.4258	2.7079	2.9756	3.3127
40	0.6807	0.8507	1.0500	1.3031	1.6839	2.0211	2.1229	2.4233	2.7045	2.9712	3.3069
50	0.6794	0.8489	1.0473	1.2987	1.6759	2.0086	2.1087	2.4033	2.6778	2.9370	3.2614
60	0.6786	0.8477	1.0455	1.2958	1.6706	2.0003	2.0994	2.3901	2.6603	2.9146	3.2317
75	0.6778	0.8464	1.0436	1.2929	1.6654	1.9921	2.0901	2.3771	2.6430	2.8924	3.2024
100	0.6770	0.8452	1.0418	1.2901	1.6602	1.9840	2.0809	2.3642	2.6259	2.8707	3.1738
∞	0.6745	0.8416	1.0364	1.2816	1.6449	1.9600	2.0537	2.3263	2.5758	2.8070	3.0902