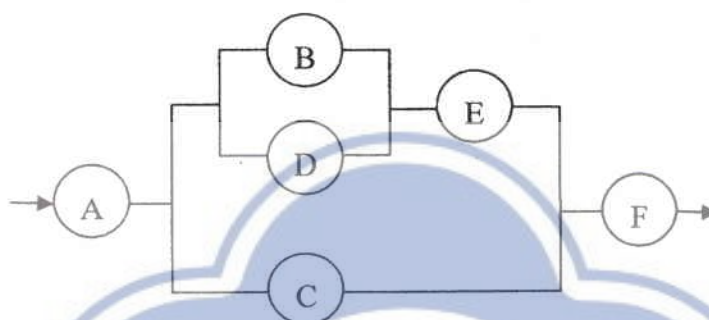


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Do All Questions**Question 1 (10 points)**

In a certain corporation, the protocol for making major decisions follows the flowchart shown below.



Any proposal is first screened by A. If he approves it, the document is forwarded to B, C, and D. If either B or D concurs, it goes to E. If either E or C say "yes", it moves on to F for a final reading. Only if F is also in agreement does the measure pass. Suppose that A, C, and F each has a 50% chance of saying "yes", whereas B, D, and E will each concur with probability 0.7. If everyone comes to a decision independently, what is the probability that a proposal will pass?

Question 2 (20 points, 5/5/5/5)

Assume that X and Y are jointly distributed with the following joint probability density function (pdf):

$$f_{X,Y}(x,y) = \begin{cases} c & \text{for } 0 < x < 1, \quad 0 < y < (1-x)^2 \\ 0 & \text{elsewhere} \end{cases}$$

Answer the following questions. Be sure to indicate the range of x and y where appropriate.

- (1) Find the value of c so that this is a proper joint density function.
- (2) Find the marginals $f_X(x)$ and $f_Y(y)$.
- (3) What is the pdf of Y given that $X = x$? What is the name of this distribution?
- (4) Compute $E(Y | X = x) = ?$

請注意：背面還有試題。

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Question 3 (15 points, 7/8)

Let $y_1, \dots, y_T$ be a random sample from a normal distribution with $N(\mu, 1)$. The null hypothesis is $H_0: \mu = 0$ and the alternatives is $H_a: \mu > 0$. The critical region for this test is:

$$\bar{y} > c, \quad \bar{y} = T^{-1} \sum_{t=1}^T y_t$$

- (1) Please define the value of c if the size of the test is 0.05. (Size is the maximum probability of rejecting H_0 when H_0 is true.)
- (2) Calculate the power of a test if the size equal to 0.05 at the alternatives: $\mu = 0.4$ and $T=25$.

Question 4 (15 points, 7/8)

Consider the model: $y_t = x_t \beta + e_t$, $t = 1, 2, \dots, T$ where x_t is a single explanatory variable, β is a scalar unknown parameter, and $E(e_t) = 0$, $E(e_t^2) = \sigma_t^2$, $E(e_t e_s) = 0$, $t \neq s$.

Under what assumptions about σ_t^2 , will each of the following estimators be best linear unbiased?

$$(1) \hat{\beta} = \frac{\sum x_t y_t}{\sum x_t^2}$$

$$(2) \hat{\beta} = \frac{\sum y_t}{\sum x_t}$$

考 試 科 目	統計學	所 別	財政所	考試時間	2 月 27 日(日) 第四節
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Question 5 (20 points)

若 A 工廠 50 位員工過去一年的請假資料如下表所示：

請假天數	0	1	2	3	4	5
人數	22	17	6	4	1	0

根據上述資料，你/妳認為 A 工廠員工請假的天數最可能呈現何種分配？試以 $\alpha = 0.05$ 加以檢定。

Question 6 (20 points, 5/5/5/5)

隨機抽樣六家零售店同一商品的銷售資料如下：

	A	B	C	D	E	F
Y(銷售量)	100	110	140	125	120	95
X(單價)	31	30	29	30	31	32

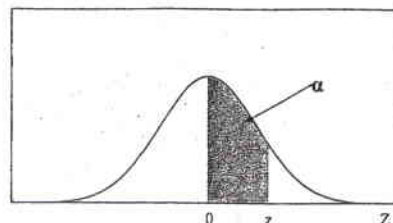
- (1) 請利用上述資料，以普通最小平方法求出迴歸估計方程式。
- (2) 試求判定係數。
- (3) 試求 $\sigma^2(Y|X)$ 之 95% 的信賴區間。
- (4) 試以 $\alpha = 0.05$ 檢定單價的迴歸估計值是否小於 -10。

請注意：背面還有試題。

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標準常態累加機率值表

$$P(0 < Z < z) = \alpha$$



z	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
0.0	0.0000	0.0040	0.0080	0.0120	0.0160	0.0199	0.0239	0.0279	0.0319	0.0359
0.1	0.0398	0.0438	0.0478	0.0517	0.0557	0.0596	0.0636	0.0675	0.0714	0.0753
0.2	0.0793	0.0832	0.0871	0.0910	0.0948	0.0987	0.1026	0.1064	0.1103	0.1141
0.3	0.1179	0.1217	0.1255	0.1293	0.1331	0.1368	0.1406	0.1443	0.1480	0.1517
0.4	0.1554	0.1591	0.1628	0.1664	0.1700	0.1736	0.1772	0.1808	0.1844	0.1879
0.5	0.1915	0.1950	0.1985	0.2019	0.2054	0.2088	0.2123	0.2157	0.2190	0.2224
0.6	0.2257	0.2291	0.2324	0.2357	0.2389	0.2422	0.2454	0.2486	0.2517	0.2549
0.7	0.2580	0.2611	0.2642	0.2673	0.2704	0.2734	0.2764	0.2794	0.2823	0.2852
0.8	0.2881	0.2910	0.2939	0.2967	0.2995	0.3023	0.3051	0.3078	0.3106	0.3133
0.9	0.3159	0.3186	0.3212	0.3238	0.3264	0.3289	0.3315	0.3340	0.3365	0.3389
1.0	0.3413	0.3438	0.3461	0.3485	0.3508	0.3531	0.3554	0.3577	0.3599	0.3621
1.1	0.3643	0.3665	0.3686	0.3708	0.3729	0.3749	0.3770	0.3790	0.3810	0.3830
1.2	0.3849	0.3869	0.3888	0.3907	0.3925	0.3944	0.3962	0.3980	0.3997	0.4015
1.3	0.4032	0.4049	0.4066	0.4082	0.4099	0.4115	0.4131	0.4147	0.4162	0.4177
1.4	0.4192	0.4207	0.4222	0.4236	0.4251	0.4265	0.4279	0.4292	0.4306	0.4319
1.5	0.4332	0.4345	0.4357	0.4370	0.4382	0.4394	0.4406	0.4418	0.4429	0.4441
1.6	0.4452	0.4463	0.4474	0.4484	0.4495	0.4505	0.4515	0.4525	0.4535	0.4545
1.7	0.4554	0.4564	0.4573	0.4582	0.4591	0.4599	0.4608	0.4616	0.4625	0.4633
1.8	0.4641	0.4649	0.4656	0.4664	0.4671	0.4678	0.4686	0.4693	0.4699	0.4706
1.9	0.4713	0.4719	0.4726	0.4732	0.4738	0.4744	0.4750	0.4756	0.4761	0.4767
2.0	0.4772	0.4778	0.4783	0.4788	0.4793	0.4798	0.4803	0.4808	0.4812	0.4817
2.1	0.4821	0.4826	0.4830	0.4834	0.4838	0.4842	0.4846	0.4850	0.4854	0.4857
2.2	0.4861	0.4864	0.4868	0.4871	0.4875	0.4878	0.4881	0.4884	0.4887	0.4890
2.3	0.4893	0.4896	0.4898	0.4901	0.4904	0.4906	0.4909	0.4911	0.4913	0.4916
2.4	0.4918	0.4920	0.4922	0.4925	0.4927	0.4929	0.4931	0.4932	0.4934	0.4936
2.5	0.4938	0.4940	0.4941	0.4943	0.4945	0.4946	0.4948	0.4949	0.4951	0.4952
2.6	0.4953	0.4955	0.4956	0.4957	0.4959	0.4960	0.4961	0.4962	0.4963	0.4964
2.7	0.4965	0.4966	0.4967	0.4968	0.4969	0.4970	0.4971	0.4972	0.4973	0.4974
2.8	0.4974	0.4975	0.4976	0.4977	0.4977	0.4978	0.4979	0.4979	0.4980	0.4981
2.9	0.4981	0.4982	0.4982	0.4983	0.4984	0.4984	0.4985	0.4985	0.4986	0.4986
3.0	0.49865	0.49869	0.49874	0.49878	0.49882	0.49886	0.49889	0.49893	0.49897	0.49900
3.1	0.49903	0.49906	0.49910	0.49913	0.49916	0.49918	0.49921	0.49924	0.49926	0.49929
3.2	0.49931	0.49934	0.49936	0.49938	0.49940	0.49942	0.49944	0.49946	0.49948	0.49950
3.3	0.49952	0.49953	0.49955	0.49957	0.49958	0.49960	0.49961	0.49962	0.49964	0.49965
3.4	0.49966	0.49968	0.49969	0.49970	0.49971	0.49972	0.49973	0.49974	0.49975	0.49976
3.5	0.49977	0.49978	0.49978	0.49979	0.49980	0.49981	0.49981	0.49982	0.49983	0.49983
3.6	0.49984	0.49985	0.49985	0.49986	0.49986	0.49987	0.49987	0.49988	0.49988	0.49989
3.7	0.49989	0.49990	0.49990	0.49990	0.49991	0.49991	0.49992	0.49992	0.49992	0.49992
3.8	0.49993	0.49993	0.49993	0.49994	0.49994	0.49994	0.49994	0.49995	0.49995	0.49995
3.9	0.49995	0.49995	0.49996	0.49996	0.49996	0.49996	0.49996	0.49996	0.49997	0.49997
4.0	0.49996832									
4.5	0.49999660									
5.0	0.49999971									
5.5	0.49999998									
6.0	0.49999999									

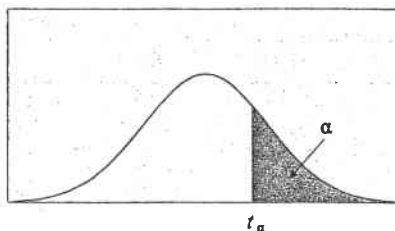
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 t 分配臨界值表

$$P(t > t_{\alpha}) = \alpha$$



$d.f.$	t_{100}	t_{050}	t_{025}	t_{010}	t_{005}	$d.f.$
1	3.078	6.314	12.706	31.821	63.656	1
2	1.886	2.920	4.303	6.965	9.925	2
3	1.638	2.353	3.182	4.541	5.841	3
4	1.533	2.132	2.776	3.747	4.604	4
5	1.476	2.015	2.571	3.365	4.032	5
6	1.440	1.943	2.447	3.143	3.707	6
7	1.415	1.895	2.365	2.998	3.499	7
8	1.397	1.860	2.306	2.896	3.355	8
9	1.383	1.833	2.262	2.821	3.250	9
10	1.372	1.812	2.228	2.764	3.169	10
11	1.363	1.796	2.201	2.718	3.106	11
12	1.356	1.782	2.179	2.681	3.055	12
13	1.350	1.771	2.160	2.650	3.012	13
14	1.345	1.761	2.145	2.624	2.977	14
15	1.341	1.753	2.131	2.602	2.947	15
16	1.337	1.746	2.120	2.583	2.921	16
17	1.333	1.740	2.110	2.567	2.898	17
18	1.330	1.734	2.101	2.552	2.878	18
19	1.328	1.729	2.093	2.539	2.861	19
20	1.325	1.725	2.086	2.528	2.845	20
21	1.323	1.721	2.080	2.518	2.831	21
22	1.321	1.717	2.074	2.508	2.819	22
23	1.319	1.714	2.069	2.500	2.807	23
24	1.318	1.711	2.064	2.492	2.797	24
25	1.316	1.708	2.060	2.485	2.787	25
26	1.315	1.706	2.056	2.479	2.779	26
27	1.314	1.703	2.052	2.473	2.771	27
28	1.313	1.701	2.048	2.467	2.763	28
29	1.311	1.699	2.045	2.462	2.756	29
30	1.310	1.697	2.042	2.457	2.750	30
31	1.310	1.696	2.040	2.453	2.744	31
32	1.309	1.694	2.037	2.449	2.739	32
33	1.308	1.692	2.035	2.445	2.733	33
34	1.307	1.691	2.032	2.441	2.728	34
35	1.306	1.690	2.030	2.438	2.724	35
36	1.306	1.688	2.028	2.435	2.720	36
37	1.305	1.687	2.026	2.431	2.715	37
38	1.304	1.686	2.024	2.429	2.712	38
39	1.304	1.685	2.023	2.426	2.708	39
40	1.303	1.684	2.021	2.423	2.705	40

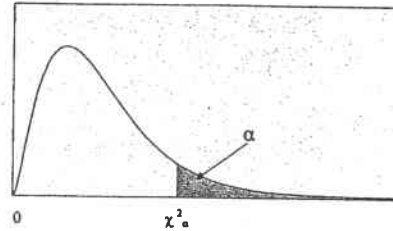
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卡方分配臨界值表

$$P(\chi^2 > \chi^2_{\alpha}) = \alpha$$

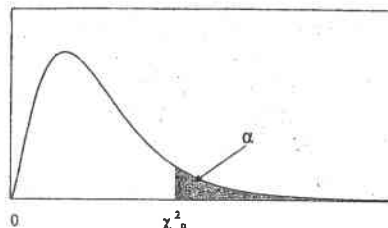


d.f.	$\chi^2_{0.995}$	$\chi^2_{0.990}$	$\chi^2_{0.975}$	$\chi^2_{0.950}$	$\chi^2_{0.900}$
1	0.0000393	0.0001571	0.0009821	0.0039322	0.0157907
2	0.0100247	0.0201004	0.0506357	0.1025862	0.2107208
3	0.0717235	0.1148316	0.2157949	0.3518460	0.5843755
4	0.206984	0.297107	0.484419	0.710724	1.063624
5	0.411751	0.554297	0.831209	1.145477	1.610309
6	0.675733	0.872083	1.237342	1.635380	2.204130
7	0.989251	1.239032	1.689864	2.167349	2.833105
8	1.344403	1.646506	2.179725	2.732633	3.489537
9	1.734911	2.087889	2.700389	3.325115	4.168156
10	2.155845	2.558199	3.246963	3.940295	4.865178
11	2.603202	3.053496	3.815742	4.574809	5.577788
12	3.073785	3.570551	4.403778	5.226028	6.303796
13	3.565042	4.106900	5.008738	5.891861	7.041500
14	4.074659	4.660415	5.628724	6.570632	7.789538
15	4.600874	5.229356	6.262123	7.260935	8.546753
16	5.142164	5.812197	6.907664	7.961639	9.312235
17	5.697274	6.407742	7.564179	8.671754	10.0852
18	6.264766	7.014903	8.230737	9.390448	10.8649
19	6.843923	7.632698	8.906514	10.1170	11.6509
20	7.433811	8.260368	9.590772	10.8508	12.4426
21	8.033602	8.897172	10.2829	11.5913	13.2396
22	8.642681	9.542494	10.9823	12.3380	14.0415
23	9.260383	10.1957	11.6885	13.0905	14.8480
24	9.886199	10.8563	12.4011	13.8484	15.6587
25	10.5196	11.5240	13.1197	14.6114	16.4734
26	11.1602	12.1982	13.8439	15.3792	17.2919
27	11.8077	12.8785	14.5734	16.1514	18.1139
28	12.4613	13.5647	15.3079	16.9279	18.9392
29	13.1211	14.2564	16.0471	17.7084	19.7677
30	13.7867	14.9535	16.7908	18.4927	20.5992
40	20.7066	22.1642	24.4331	26.5093	29.0505
50	27.9908	29.7067	32.3574	34.7642	37.6886
60	35.5344	37.4848	40.4817	43.1880	46.4589
80	51.1719	53.5400	57.1532	60.3915	64.2778
100	67.3275	70.0650	74.2219	77.9294	82.3581

考 試 科 目	統計學	所 別	財政所	考 試 時 間	2 月 27 日(日) 第 四 節
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卡方分配臨界值表
(續)

$$P(\chi^2 > \chi^2_{\alpha}) = \alpha$$



$\chi^2_{0.100}$	$\chi^2_{0.050}$	$\chi^2_{0.025}$	$\chi^2_{0.010}$	$\chi^2_{0.005}$	d.f.
2.705541	3.841455	5.023903	6.634891	7.879400	1
4.605176	5.991476	7.377779	9.210351	10.5965	2
6.251394	7.814725	9.348404	11.3449	12.8381	3
7.779434	9.487728	11.1433	13.2767	14.8602	4
9.236349	11.0705	12.8325	15.0863	16.7496	5
10.6446	12.5916	14.4494	16.8119	18.5475	6
12.0170	14.0671	16.0128	18.4753	20.2777	7
13.3616	15.5073	17.5345	20.0902	21.9549	8
14.6837	16.9190	19.0228	21.6660	23.5893	9
15.9872	18.3070	20.4832	23.2093	25.1881	10
17.2750	19.6752	21.9200	24.7250	26.7569	11
18.5493	21.0261	23.3367	26.2170	28.2997	12
19.8119	22.3620	24.7356	27.6882	29.8193	13
21.0641	23.6848	26.1189	29.1412	31.3194	14
22.3071	24.9958	27.4884	30.5780	32.8015	15
23.5418	26.2962	28.8453	31.9999	34.2671	16
24.7690	27.5871	30.1910	33.4087	35.7184	17
25.9894	28.8693	31.5264	34.8052	37.1564	18
27.2036	30.1435	32.8523	36.1908	38.5821	19
28.4120	31.4104	34.1696	37.5663	39.9969	20
29.6151	32.6706	35.4789	38.9322	41.4009	21
30.8133	33.9245	36.7807	40.2894	42.7957	22
32.0069	35.1725	38.0756	41.6383	44.1814	23
33.1962	36.4150	39.3641	42.9798	45.5584	24
34.3816	37.6525	40.6465	44.3140	46.9280	25
35.5632	38.8851	41.9231	45.6416	48.2898	26
36.7412	40.1133	43.1945	46.9628	49.6450	27
37.9159	41.3372	44.4608	48.2782	50.9936	28
39.0875	42.5569	45.7223	49.5878	52.3355	29
40.2560	43.7730	46.9792	50.8922	53.6719	30
51.8050	55.7585	59.3417	63.6908	66.7660	40
63.1671	67.5048	71.4202	76.1538	79.4898	50
74.3970	79.0820	83.2977	88.3794	91.9518	60
96.5782	101.879	106.629	112.329	116.321	80
118.498	124.342	129.561	135.807	140.170	100

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考 試 科 目	統計學	所 別	財政所	考 試 時 間	2 月 27 日(日) 第四節
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泊松分配機率值表 $P(X=x) = \frac{e^{-\lambda} \lambda^x}{x!}$

x	λ									
	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
0	.9048	.8187	.7408	.6703	.6065	.5488	.4966	.4493	.4066	.3679
1	.0905	.1637	.2222	.2681	.3033	.3293	.3476	.3595	.3659	.3679
2	.0045	.0164	.0333	.0536	.0758	.0988	.1217	.1438	.1647	.1839
3	.0002	.0011	.0033	.0072	.0126	.0198	.0284	.0383	.0494	.0613
4	.0000	.0001	.0003	.0007	.0016	.0030	.0050	.0077	.0111	.0153
5	.0000	.0000	.0000	.0001	.0002	.0004	.0007	.0012	.0020	.0031
6	.0000	.0000	.0000	.0000	.0000	.0000	.0001	.0002	.0003	.0005
7	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001

x	λ									
	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
0	.2231	.1353	.0821	.0498	.0302	.0183	.0111	.0067	.0041	.0025
1	.3347	.2707	.2052	.1494	.1057	.0733	.0500	.0337	.0225	.0149
2	.2510	.2707	.2565	.2240	.1850	.1465	.1125	.0842	.0618	.0446
3	.1255	.1804	.2138	.2240	.2158	.1954	.1687	.1404	.1133	.0892
4	.0471	.0902	.1336	.1680	.1888	.1954	.1898	.1755	.1558	.1339
5	.0141	.0361	.0668	.1008	.1322	.1563	.1708	.1755	.1714	.1606
6	.0035	.0120	.0278	.0504	.0771	.1042	.1281	.1462	.1571	.1606
7	.0008	.0034	.0099	.0216	.0385	.0595	.0824	.1044	.1234	.1377
8	.0001	.0009	.0031	.0081	.0169	.0298	.0463	.0653	.0849	.1033
9	.0000	.0002	.0009	.0027	.0066	.0132	.0232	.0363	.0519	.0688
10	.0000	.0000	.0002	.0008	.0023	.0053	.0104	.0181	.0285	.0413
11	.0000	.0000	.0000	.0002	.0007	.0019	.0043	.0082	.0143	.0225
12	.0000	.0000	.0000	.0001	.0002	.0006	.0016	.0034	.0065	.0113
13	.0000	.0000	.0000	.0000	.0001	.0002	.0006	.0013	.0028	.0052
14	.0000	.0000	.0000	.0000	.0000	.0001	.0002	.0005	.0011	.0022
15	.0000	.0000	.0000	.0000	.0000	.0000	.0001	.0002	.0004	.0009
16	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001	.0003
17	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001

備

註 試 題 隨 卷 繳 交

考 試 科 目	統計學	所 別	財政所	考 試 時 間	2 月 27 日(日) 第四節
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泊松分配機率值表 (續)

$$P(X=x) = \frac{e^{-\lambda} \lambda^x}{x!}$$

x	λ									
	6.5	7.5	8.5	9.0	9.5	10.0	11.0	12.0	15.0	20.0
0	.0015	.0006	.0002	.0001	.0001	.0000	.0000	.0000	.0000	.0000
1	.0098	.0041	.0017	.0011	.0007	.0005	.0002	.0001	.0000	.0000
2	.0318	.0156	.0074	.0050	.0034	.0023	.0010	.0004	.0000	.0000
3	.0688	.0389	.0208	.0150	.0107	.0076	.0037	.0018	.0002	.0000
4	.1118	.0729	.0443	.0337	.0254	.0189	.0102	.0053	.0006	.0000
5	.1454	.1094	.0752	.0607	.0483	.0378	.0224	.0127	.0019	.0001
6	.1575	.1367	.1066	.0911	.0764	.0631	.0411	.0255	.0048	.0002
7	.1462	.1465	.1294	.1171	.1037	.0901	.0646	.0437	.0104	.0005
8	.1188	.1373	.1375	.1318	.1232	.1126	.0888	.0655	.0194	.0013
9	.0858	.1144	.1299	.1318	.1300	.1251	.1085	.0874	.0324	.0029
10	.0558	.0858	.1104	.1186	.1235	.1251	.1194	.1048	.0486	.0058
11	.0330	.0585	.0853	.0970	.1067	.1137	.1194	.1144	.0663	.0106
12	.0179	.0366	.0604	.0728	.0844	.0948	.1094	.1144	.0829	.0176
13	.0089	.0211	.0395	.0504	.0617	.0729	.0926	.1056	.0956	.0271
14	.0041	.0113	.0240	.0324	.0419	.0521	.0728	.0905	.1024	.0387
15	.0018	.0057	.0136	.0194	.0265	.0347	.0534	.0724	.1024	.0516
16	.0007	.0026	.0072	.0109	.0157	.0217	.0367	.0543	.0960	.0646
17	.0003	.0012	.0036	.0058	.0088	.0128	.0237	.0383	.0847	.0760
18	.0001	.0005	.0017	.0029	.0046	.0071	.0145	.0255	.0706	.0844
19	.0000	.0002	.0008	.0014	.0023	.0037	.0084	.0161	.0557	.0888
20	.0000	.0001	.0003	.0006	.0011	.0019	.0046	.0097	.0418	.0888
21	.0000	.0000	.0001	.0003	.0005	.0009	.0024	.0055	.0299	.0846
22	.0000	.0000	.0001	.0001	.0002	.0004	.0012	.0030	.0204	.0769
23	.0000	.0000	.0000	.0000	.0001	.0002	.0006	.0016	.0133	.0669
24	.0000	.0000	.0000	.0000	.0000	.0001	.0003	.0008	.0083	.0557
25	.0000	.0000	.0000	.0000	.0000	.0000	.0001	.0004	.0050	.0446
26	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0002	.0029	.0343
27	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001	.0016	.0254
28	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0009	.0181
29	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0004	.0125
30	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0002	.0083
31	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001	.0054
32	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001	.0034
33	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0020
34	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0012
35	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0007
36	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0004
37	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0002
38	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001
39	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001

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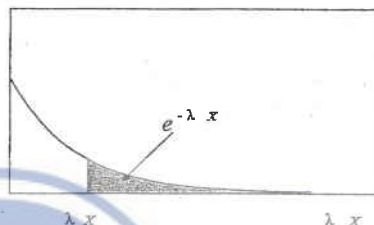
註

試 題 隨 卷 繳 交

請注意：背面還有試題。

考試科目	統計學	所別	財政所	考試時間	2 月 27 日(日) 第四節
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指數分配函數

 $f(\lambda x)$ 

λx	$e^{-\lambda x}$	λx	$e^{-\lambda x}$	λx	$e^{-\lambda x}$	λx	$e^{-\lambda x}$
0.0	1.000	2.5	0.082	5.0	0.0067	7.5	0.0006
0.1	0.905	2.6	0.074	5.1	0.0061	7.6	0.0005
0.2	0.819	2.7	0.067	5.2	0.0055	7.7	0.0005
0.3	0.741	2.8	0.061	5.3	0.0050	7.8	0.0004
0.4	0.670	2.9	0.055	5.4	0.0045	7.9	0.0004
0.5	0.607	3.0	0.050	5.5	0.0041	8.0	0.0003
0.6	0.549	3.1	0.045	5.6	0.0037	8.1	0.0003
0.7	0.497	3.2	0.041	5.7	0.0033	8.2	0.0003
0.8	0.449	3.3	0.037	5.8	0.0030	8.3	0.0002
0.9	0.407	3.4	0.033	5.9	0.0027	8.4	0.0002
1.0	0.368	3.5	0.030	6.0	0.0025	8.5	0.0002
1.1	0.333	3.6	0.027	6.1	0.0022	8.6	0.0002
1.2	0.301	3.7	0.025	6.2	0.0020	8.7	0.0002
1.3	0.273	3.8	0.022	6.3	0.0018	8.8	0.0002
1.4	0.247	3.9	0.020	6.4	0.0017	8.9	0.0001
1.5	0.223	4.0	0.018	6.5	0.0015	9.0	0.0001
1.6	0.202	4.1	0.017	6.6	0.0014	9.1	0.0001
1.7	0.183	4.2	0.015	6.7	0.0012	9.2	0.0001
1.8	0.165	4.3	0.014	6.8	0.0011	9.3	0.0001
1.9	0.150	4.4	0.012	6.9	0.0010	9.4	0.0001
2.0	0.135	4.5	0.011	7.0	0.0009	9.5	0.0001
2.1	0.122	4.6	0.010	7.1	0.0008	9.6	0.0001
2.2	0.111	4.7	0.009	7.2	0.0007	9.7	0.0001
2.3	0.100	4.8	0.008	7.3	0.0007	9.8	0.0001
2.4	0.091	4.9	0.007	7.4	0.0006	9.9	0.0001

備

註

試題隨卷繳交