

UNIVERSITI SAINS MALAYSIA

Peperiksaan Semester Kedua
Sidang Akademik 2004/2005

Februari/Mac 2005

JIB 213 – BIOSTATISTIK

Masa : 3 jam

Sila pastikan bahawa kertas peperiksaan ini mengandungi **ENAM** muka surat yang bercetak sebelum anda memulakan peperiksaan ini.

Jadual dan formula yang berasingan (17 muka surat bercetak) disertakan bersama kertas soalan.

Jawab LIMA soalan.

Setiap jawapan mesti dijawab di dalam buku jawapan yang disediakan.

Setiap soalan bernilai 20 markah dan markah subsoalan diperlihatkan di penghujung subsoalan itu.

Soalan 1

1. a. Catat jenis data bagi setiap pembolehubah di bawah :

- i. Kadar denyutan jantung (per minit)
- ii. Tempoh masa untuk sesuatu tindak balas kimia.

(2 markah)

b. Seseorang pelajar ingin memerhatikan jenis-jenis data alga akuatik yang terdapat di dalam air kolam. Di dalam satu titisan air kolam beliau perhatikan jenis-jenis alga berikut :

<i>Euglena</i>	<i>Euglena</i>	<i>Euglena</i>
<i>Chlamydomonas</i>	<i>Spirogyra</i>	<i>Volvox</i>
<i>Spirogyra</i>	<i>Volvox</i>	<i>Spirogyra</i>
<i>Euglena</i>	<i>Chlamydomonas</i>	<i>Volvox</i>
<i>Ulothrix</i>	<i>Volvox</i>	<i>Spirogyra</i>

Catat bagaimana data ini dapat diringkaskan.

(2 markah)

c. i. Adalah diketahui min kandungan hemoglobin di dalam darah manusia dewasa mempunyai taburan frekuensi yang menghampiri taburan kebarangkalian normal, dengan nilai min, μ sebanyak 15.80 $\mu\text{g/ml}$ dan sisihan piawai s sebanyak 2.0 $\mu\text{g/ml}$.
Hitungkan nilai Z apabila nilai x ialah 11.8.

(2 markah)

ii. Apakah kebarangkalian bahawa seorang individu dewasa mempunyai nilai kandungan hemoglobin di antara 15.80 $\mu\text{g/ml}$ dan 21.40 $\mu\text{g/ml}$?

(2 markah)

d. Seorang pelajar Universiti Sains Malaysia telah merekodkan berat badan 10 ekor kera di Kebun Bunga Pulau Pinang. Data berikut adalah berat badan (kg) 10 ekor kera tersebut : -

8.5, 9.7, 8.9, 9.2, 6.5, 7.6, 7.8, 5.6, 7.8, 8.4

Cari nilai varians dan sisihan piawai sampel bagi berat badan kera di Kebun Bunga Pulau Pinang.

(4 markah)

...3/-

e. Untuk setiap kes di bawah, nyatakan ujian statistik yang terlibat adalah ujian satu hujung atau dua hujung.

- i. Lima belas sampel air sungai diambil untuk penentuan kandungan oksigen terlarut dengan menggunakan alat Warburg. Pelajar menjalankan analisis kandungan oksigen terlarut dengan dua alat Warburg dan beliau mengesyaki bahawa dua set alat itu berbeza sensitiviti. Maka pelajar itu melakukan penentuan kandungan oksigen di dalam setiap sampel air dengan menggunakan kedua-dua alat Warburg itu. Data yang diperolehi digunakan untuk menguji secara statistik sama ada dua set alat Warburg itu sama kesensitifan.
- ii. Satu set alat Warburg diguna untuk menentukan kandungan oksigen terlarut di dalam 8 sampel air dari bahagian hulu Sungai Pinang dan 8 lagi sample air bahagian kuala Sungai Pinang. Tujuan kajian ini ialah untuk menentukan sama ada air di bahagian kuala lebih tercemar berbanding denan air di bahagian hulu sungai itu.

(2 markah)

f. i. Nyatakan perbezaan antara korelasi linear dan regresi linear.

(2 markah)

ii. Data berikut adalah daripada satu kajian nitrogen.

Kadar Pembajaan (kg / ha)	Hasil Padi (ton / ha)
0	1.54
50	2.78
75	3.41
100	4.02
150	5.14

Berdasarkan jadual, apakah hubungan antara kadar pembajaan dengan hasil padi?

(2 markah)

iii. Apakah kaedah statistik yang akan anda guna jika anda ingin mengetahui hasil padi apabila 125 kg/ha baja digunakan?

(2 markah)

Soalan 2

Di dalam satu kajian pencemaran air, 12 sampel air tasik diambil dan ditentukan kandungan nitrat di dalamnya. Kepekatan kritikal bagi kandungan nitrat di dalam air ditetapkan oleh Jabatan Alam Sekitar pada 10 ug/liter iaitu air yang mengandungi nitrat yang melebihi kepekatan kritikal ini dianggap tercemar.

Jalankan ujian statistik yang sesuai dengan data berikut yang diperolehi daripada kajian untuk menentukan sama ada air tasik itu tercemar atau tidak pada aras keertian 99% dan 95%. Buat kesimpulan pada jawapan anda dengan bantuan gambar rajah rantau genting.

16.3 $\mu\text{g}/\ell$, 14.2 $\mu\text{g}/\ell$, 13.1 $\mu\text{g}/\ell$, 11.6 $\mu\text{g}/\ell$, 14.5 $\mu\text{g}/\ell$, 13.3 $\mu\text{g}/\ell$, 11.8 $\mu\text{g}/\ell$, 12.9 $\mu\text{g}/\ell$,
15.7 $\mu\text{g}/\ell$, 14.1 $\mu\text{g}/\ell$, 15.8 $\mu\text{g}/\ell$, 16.1 $\mu\text{g}/\ell$

(20 markah)

Soalan 3

Data di dalam jadual berikut ialah ukuran saiz stoma pada permukaan adaksial daun bagi tiga varieti bunga raya *Hibiscus rosa-sinensis*.

Saiz Stoma (μm)		
Varieti A	Varieti B	Varieti C
5.68	5.69	6.01
6.15	6.20	6.34
6.76	6.74	6.88
6.63	6.61	6.78
6.50	6.47	6.65
6.23	6.31	6.42

Lakukan analisis data untuk menentukan sama ada saiz stoma berbeza dengan varieti pada aras keertian 95% dan 99%.

(20 markah)

Soalan 4

Data berikut adalah ukuran saiz stoma pada permukaan atas daun tiga varieti jagung, *Zea mays*. Anda diberitahu bahawa pengukuran saiz pada setiap varieti dibuat ke atas daun yang sama pada waktu-waktu tertentu di dalam satu hari. Jalankan ujian statistik untuk menentukan sama ada varieti jagung dan masa pengukuran dapat mempengaruhi saiz stomata daun pada aras keertian 95 % dan 99 %.

Waktu	Saiz Stoma (μm)		
	Varieti A	Varieti B	Varieti C
6 pagi	6.68	6.69	7.01
8 pagi	7.20	7.20	7.25
10 pagi	7.76	7.74	7.81
12 tengah hari	7.73	7.72	7.78
2 petang	7.70	7.71	7.75
4 petang	7.65	7.68	7.71
6 petang	7.21	7.23	7.30

Buat kesimpulan atas keputusan anda dengan bantuan gambar rajah rantau genting.

(20 markah)

Soalan 5

Data di dalam jadual ialah kandungan kolesterol dan kandungan asid urik di dalam darah bagi 8 orang lelaki dewasa.

Kandungan Kolestrol Y ($\mu\text{g}/\text{ml}$)	Kandungan Asid Urik x ($\mu\text{g mol}/\text{ml}$)
269	43
279	65
248	78
318	73
318	71
254	69
263	67
320	45

- i. Lakarkan satu gambar rajah serakan (scatter diagram) bagi kedua-dua pembolehubah tersebut. Buat kesimpulan.
- ii. Hitungkan pekali korelasi Pearson, r antara kandungan kolesterol dan kandungan asid urik di dalam darah lelaki dewasa. Adakah kesimpulan yang anda buat di bahagian (i) benar? Buktikan.

(20 markah)

Soalan 6

Rekod jangka panjang dari Institut Penyelidikan Perubatan menunjukkan bahawa peratusan penduduk Malaysia yang masing-masing mempunyai darah jenis AB , A , O dan B ialah 5 % , 40 % , 40 % dan 15 % . Seorang pelajar perubatan Universiti Sains Malaysia telah membuat kajian jenis darah manusia dewasa di Pulau Pinang . Daripada satu sampel yang terdiri daripada 480 orang, dia mendapati bahawa 15 orang mempunyai darah jenis AB, 207 orang mempunyai darah jenis A, 194 mempunyai darah jenis O dan 64 mempunyai darah jenis B. Tentukan sama ada nisbah jenis darah pada sampel manusia dari Pulau Pinang sama dengan nisbah yang dijangka berdasarkan rekod dari Institut Penyelidikan Perubatan pada aras keertian 95 %.

Kategori Darah	AB	A	B	O
Peratus , %	5	40	15	40
Kekerapan Pemerhatian (Observed)	15	207	64	194

(20 markah)

LAMPIRAN
JIB 213
BIOSTATISTIK

RUMUS

1. Min, $\bar{X} = \frac{\sum x}{n}$

2. Min, $\bar{X} = \frac{\sum(fx)}{n}$

3. Formula Sisihan Piawai : $S_{\bar{x}} = \frac{s}{\sqrt{n}}$

4. Varian bagi data tak terkumpul

$$S^2 = \frac{\sum(fx^2) - x \sum(fx)}{n - 1}$$

5. Varians bagi sampel (penganggar saksama bagi σ^2)

$$S^2 = \frac{\sum(x - \bar{x})^2}{n - 1}$$

6. Varians bagi populasi

$$\sigma^2 = \frac{\sum(x - \mu)^2}{N}$$

7. Taburan kebarangkalian Binomial

$$P_{\text{kali, peristiwa}} = \binom{k}{x} p^x q^{k-x}$$

8. Taburan kebarangkalian Posson

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

9. Selang Keyakinan, $\mu = \bar{x} \pm Z_{\alpha/2} \frac{\sigma}{\sqrt{n}}$

10. Selang keyakinan $(1 - \alpha)$ 100% bagi μ

$$\left[\bar{x} - Z_{\alpha/2} \frac{\sigma}{\sqrt{N}}, \bar{x} + Z_{\alpha/2} \frac{\sigma}{\sqrt{N}} \right]$$

11. (a) $Z_{ujian} = \frac{\bar{x} - \mu_0}{\frac{\sigma}{\sqrt{n}}}$ (bila σ diketahui)

(b) $Z_{ujian} = \frac{\bar{x} - \mu_0}{\frac{\sigma}{\sqrt{n}}}$ (bila σ saiz sampel lebih dari 30)

12. (a) $Z = \frac{\bar{x} - \mu}{\frac{S}{\sqrt{N}}}$ (bila σ tidak diketahui tetapi S diketahui)

(b) $t = \frac{\bar{x} - \mu}{\frac{S}{\sqrt{n}}}$ (bila saiz sampel tidak diketahui atau kecil daripada 30)

13. $SS_T = SS_{ds} + SS_{as}$

$$SS_{as} = \frac{(\sum X_i)^2}{n_1} + \frac{(\sum X_{ii})^2}{n_2} + \frac{(\sum X_{iii})^2}{n_3} - \frac{(\sum X)^2}{N}$$

$$SS_T = \sum X^2 - \frac{(\sum X)^2}{N}$$

$$SS_T = SS \text{ jumlah}$$

$$SS_{as} = SS \text{ antara sel}$$

$$= [\text{as perlakuan}]$$

$$SS_{ds} = SS \text{ dalam sel}$$

$$[\text{SS blok}]$$

$$SS_{baki} = SS \text{ jiloh} - SS \text{ perlakuan} - SS \text{ blok}$$

14. $F_{\text{pengiraan}} = \frac{MS_{\text{as}}}{MS_{\text{ds}}}$
 $F_{\text{jadual}} \Rightarrow \frac{\text{Perlakuan}(a-1)}{\text{Blok}(n-1)}$
 $\text{Baki}(a-1)(n-1)$
15. (a) Kekерapan jangkakan, $E = \frac{\text{Row} \times \text{Column}}{N}$
- (b) Khi Kuasa Dua, $\chi^2 = \frac{\sum(O-E)^2}{E}$
 di mana O : Observed
 E : Expected
- (c) Degree of freedom, $df = (C-1)(G-1)$
 di mana C = Column
 G = Group
16. Pekali Korelasi Pearson, r

$$r = \frac{\sum(X - \bar{X})(Y - \bar{Y})}{\sqrt{[\sum(X - \bar{X})^2 \sum(Y - \bar{Y})^2]}}$$

atau

$$r = \frac{n \sum X_1 Y_1 - \sum X_1 \sum Y_1}{\sqrt{[n(\sum X_1^2) - (\sum X_1)^2][n \sum Y_1^2 - (\sum Y_1)^2]}}$$

17. (a) Jadual ANOVA Satu Hala.

Punca Varian	Degree Of Freedom	SS	MS
Perlakuan	$a - 1$	$n \sum (X_i - \bar{X})^2$	
Baki	$a(n - 1)$		
Jumlah	$an - 1$	$\sum_i \sum_j X_{ij}^2 - \frac{(\sum_i \sum_j X_{ij})^2}{an}$	

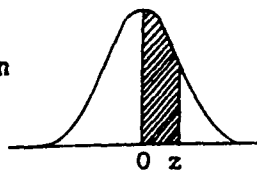
SS baki = SS jumlah – SS perlakuan.

(b) Jadual ANOVA Dua Hala.

Punca Variasi	Degree Of Freedom	SS
Perlakuan	$a - 1$	$n \sum (X_i - \bar{X})^2$
Blok	$n - 1$	$a \sum (X_j - \bar{X})^2 - \frac{(\sum_i \sum_j X_{ij})^2}{an}$
Ralat (Baki)	$(a - 1)(n - 1)$	-
Jumlah	$an - 1$	$\sum_i \sum_j (X_{ij} - \bar{X})^2$

Sifir Luas Taburan Normal Piawai

Nilai pemasukan ialah keberangkatan di antara $z = 0$ dan suatu nilai z yang positif. Luas untuk nilai z yang negatif diperolehi dari prinsip simetri.



z	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
0.0	.0000	.0040	.0080	.0120	.0160	.0199	.0239	.0279	.0319	.0359
0.1	.0398	.0438	.0478	.0517	.0557	.0596	.0636	.0675	.0714	.0753
0.2	.0793	.0832	.0871	.0910	.0948	.0987	.1026	.1064	.1103	.1141
0.3	.1179	.1217	.1255	.1293	.1331	.1368	.1406	.1443	.1480	.1517
0.4	.1554	.1591	.1628	.1664	.1700	.1736	.1772	.1808	.1844	.1879
0.5	.1915	.1950	.1985	.2019	.2054	.2088	.2123	.2157	.2190	.2224
0.6	.2257	.2291	.2324	.2357	.2389	.2422	.2454	.2486	.2517	.2549
0.7	.2580	.2611	.2642	.2673	.2703	.2734	.2764	.2794	.2823	.2852
0.8	.2881	.2910	.2939	.2967	.2995	.3023	.3051	.3078	.3106	.3133
0.9	.3159	.3186	.3212	.3238	.3264	.3289	.3315	.3340	.3365	.3389
1.0	.3413	.3438	.3461	.3485	.3508	.3531	.3554	.3577	.3599	.3621
1.1	.3643	.3665	.3686	.3708	.3729	.3749	.3770	.3790	.3810	.3830
1.2	.3849	.3869	.3888	.3907	.3925	.3944	.3962	.3980	.3997	.4015
1.3	.4032	.4049	.4066	.4082	.4099	.4115	.4131	.4147	.4162	.4177
1.4	.4192	.4207	.4222	.4236	.4251	.4265	.4279	.4292	.4306	.4319
1.5	.4332	.4345	.4357	.4370	.4382	.4394	.4406	.4418	.4429	.4441
1.6	.4452	.4463	.4474	.4484	.4495	.4505	.4515	.4525	.4535	.4545
1.7	.4554	.4564	.4573	.4582	.4591	.4599	.4608	.4616	.4625	.4633
1.8	.4641	.4649	.4656	.4664	.4671	.4678	.4686	.4693	.4699	.4706
1.9	.4713	.4719	.4726	.4732	.4738	.4744	.4750	.4756	.4761	.4767
2.0	.4772	.4778	.4783	.4788	.4793	.4798	.4803	.4808	.4812	.4817
2.1	.4821	.4826	.4830	.4834	.4838	.4842	.4846	.4850	.4854	.4857
2.2	.4861	.4864	.4868	.4871	.4875	.4878	.4881	.4884	.4887	.4890
2.3	.4893	.4896	.4898	.4901	.4904	.4906	.4909	.4911	.4913	.4916
2.4	.4918	.4920	.4922	.4925	.4927	.4929	.4931	.4932	.4934	.4936
2.5	.4938	.4940	.4941	.4943	.4945	.4946	.4948	.4949	.4951	.4952
2.6	.4953	.4955	.4956	.4957	.4959	.4960	.4961	.4962	.4963	.4964
2.7	.4965	.4966	.4967	.4968	.4969	.4970	.4971	.4972	.4973	.4974
2.8	.4974	.4975	.4976	.4977	.4977	.4978	.4979	.4979	.4980	.4981
2.9	.4981	.4982	.4982	.4983	.4984	.4984	.4985	.4985	.4986	.4986
3.0	.4987	.4987	.4987	.4988	.4988	.4989	.4989	.4989	.4990	.4990

Sifir Nilai-Nilai Genting Untuk t II. Titik Peratusan Taburan t

ν	α	.40	.25	.10	.05	.025	.01	.005	.0025	.001	.0005
1	.325	1.000	3.078	6.314	12.706	31.821	63.657	127.32	318.31	636.62	
2	.289	.816	1.886	2.920	4.303	6.965	9.925	14.089	23.326	31.598	
3	.277	.765	1.638	2.353	3.182	4.541	5.841	7.453	10.213	12.924	
4	.271	.741	1.533	2.132	2.776	3.747	4.604	5.598	7.173	8.610	
5	.267	.727	1.476	2.015	2.571	3.365	4.032	4.773	5.893	6.869	
6	.265	.727	1.440	1.943	2.447	3.143	3.707	4.317	5.208	5.959	
7	.263	.711	1.415	1.895	2.365	2.998	3.499	4.019	4.785	5.408	
8	.262	.706	1.397	1.860	2.306	2.896	3.355	3.833	4.501	5.041	
9	.261	.703	1.383	1.833	2.262	2.821	3.250	3.690	4.297	4.781	
10	.260	.700	1.372	1.812	2.228	2.764	3.169	3.581	4.144	4.587	
11	.260	.697	1.363	1.796	2.201	2.718	3.106	3.497	4.025	4.437	
12	.259	.695	1.356	1.782	2.179	2.681	3.055	3.428	3.930	4.318	
13	.259	.694	1.350	1.771	2.160	2.650	3.012	3.372	3.852	4.221	
14	.258	.692	1.345	1.761	2.145	2.624	2.977	3.326	3.787	4.140	
15	.258	.691	1.341	1.753	2.131	2.602	2.947	3.286	3.733	4.073	
16	.258	.690	1.337	1.746	2.120	2.583	2.921	3.252	3.686	4.015	
17	.257	.689	1.333	1.740	2.110	2.567	2.898	3.222	3.646	3.965	
18	.257	.688	1.330	1.734	2.101	2.552	2.878	3.197	3.610	3.922	
19	.257	.688	1.328	1.729	2.093	2.539	2.861	3.174	3.579	3.883	
20	.257	.687	1.325	1.725	2.086	2.528	2.845	3.153	3.552	3.850	
21	.257	.686	1.323	1.721	2.080	2.518	2.831	3.135	3.527	3.819	
22	.256	.686	1.321	1.717	2.074	2.508	2.819	3.119	3.505	3.792	
23	.256	.685	1.319	1.714	2.069	2.500	2.807	3.104	3.485	3.767	
24	.256	.685	1.318	1.711	2.064	2.492	2.797	3.091	3.467	3.745	
25	.256	.684	1.316	1.708	2.060	2.485	2.787	3.078	3.450	3.725	
26	.256	.684	1.315	1.706	2.056	2.479	2.779	3.067	3.435	3.707	
27	.256	.684	1.314	1.703	2.052	2.473	2.771	3.057	3.421	3.690	
28	.256	.683	1.313	1.701	2.048	2.467	2.763	3.047	3.408	3.674	
29	.256	.683	1.311	1.699	2.045	2.462	2.756	3.038	3.396	3.659	
30	.256	.683	1.310	1.697	2.042	2.457	2.750	3.030	3.385	3.646	
40	.255	.681	1.303	1.684	2.021	2.423	2.704	2.971	3.307	3.551	
60	.254	.679	1.296	1.671	2.000	2.390	2.660	2.915	3.232	3.460	
120	.254	.677	1.289	1.658	1.980	2.358	2.617	2.860	3.160	3.373	
∞	.253	.674	1.282	1.645	1.960	2.326	2.576	2.807	3.090	3.291	

 ν = darjah kebebasanDipadankan dengan kebenaran daripada *Biometrika Tables for Statisticians*, Jil. 1. Edisi Ketiga, oleh E. S. Pearson dan H. O. Hartley. Cambridge University Press. Cambridge, 1966.

**KEBARANGKALIAN Hujung Atas Q(z)
BAGI TABURAN NORMAL N(0,1)**

z	0	1	2	3	4	5	6	7	8	9	1 2 3	4 5 6	7 8 9
											TOLAK		
0.0	.5000	.4960	.4920	.4880	.4840	.4801	.4761	.4721	.4681	.4641	4 8 12	16 20 24	28 32 36
0.1	.4602	.4562	.4522	.4483	.4443	.4404	.4364	.4325	.4286	.4247	4 8 12	16 20 24	28 32 36
0.2	.4207	.4168	.4129	.4090	.4052	.4013	.3974	.3936	.3897	.3859	4 8 12	15 19 23	27 31 35
0.3	.3821	.3783	.3745	.3707	.3669	.3632	.3594	.3557	.3520	.3483	4 7 11	15 19 22	26 30 34
0.4	.3446	.3409	.3372	.3336	.3300	.3264	.3228	.3192	.3156	.3121	4 7 11	14 18 22	25 29 32
0.5	.3085	.3050	.3015	.2981	.2946	.2912	.2877	.2843	.2810	.2776	3 7 10	14 17 20	24 27 31
0.6	.2743	.2709	.2676	.2643	.2611	.2578	.2546	.2514	.2483	.2451	3 7 10	13 16 19	23 26 29
0.7	.2420	.2389	.2358	.2327	.2296	.2266	.2236	.2206	.2177	.2148	3 6 9	12 15 18	21 24 27
0.8	.2119	.2090	.2061	.2033	.2005	.1977	.1949	.1922	.1894	.1867	3 5 8	11 14 16	19 22 25
0.9	.1841	.1814	.1788	.1762	.1736	.1711	.1685	.1660	.1635	.1611	3 5 8	10 13 15	18 20 23
1.0	.1587	.1562	.1539	.1515	.1492	.1469	.1446	.1423	.1401	.1379	2 5 7	9 12 14	16 19 21
1.1	.1357	.1335	.1314	.1292	.1271	.1251	.1230	.1210	.1190	.1170	2 4 6	8 10 12	14 16 18
1.2	.1151	.1131	.1112	.1093	.1075	.1056	.1038	.1020	.1003	.0985	2 4 6	7 9 11	13 15 17
1.3	.0968	.0951	.0934	.0918	.0901	.0885	.0869	.0853	.0838	.0823	2 3 5	6 8 10	11 13 14
1.4	.0808	.0793	.0778	.0764	.0749	.0735	.0721	.0708	.0694	.0681	1 3 4	6 7 8	10 11 13
1.5	.0668	.0655	.0643	.0630	.0618	.0606	.0594	.0582	.0571	.0559	1 2 4	5 6 7	8 10 11
1.6	.0548	.0537	.0526	.0516	.0505	.0495	.0485	.0475	.0465	.0455	1 2 3	4 5 6	7 8 9
1.7	.0446	.0436	.0427	.0418	.0409	.0401	.0392	.0384	.0375	.0367	1 2 3	4 4 5	6 7 8
1.8	.0359	.0351	.0344	.0336	.0329	.0322	.0314	.0307	.0301	.0294	1 1 2	3 4 4	5 6 6
1.9	.0287	.0281	.0274	.0268	.0262	.0256	.0250	.0244	.0239	.0233	1 1 2	2 3 4	4 5 5
2.0	.0228	.0222	.0217	.0212	.0207	.0202	.0197	.0192	.0188	.0183	0 1 1	2 2 3	3 4 4
2.1	.0179	.0174	.0170	.0166	.0162	.0158	.0154	.0150	.0146	.0143	0 1 1	2 2 2	3 3 4
2.2	.0139	.0136	.0132	.0129	.0125	.0122	.0119	.0116	.0113	.0110	0 1 1	1 2 2	2 3 3
2.3	.0107	.0104	.0102		.0299c	.02964	.02939	.02914			0 1 1	1 1 2	2 2 2
2.4	.02820	.02798	.02776	.02755	.02734			.02889	.02866	.02842	3 5 8	10 13 15	18 20 23
2.5						.02714	.02695	.02676	.02657	.02639	2 5 7	9 12 14	16 18 21
2.6	.02621	.02604	.02587	.02570	.02554	.02539	.02523	.02508	.02494	.02480	2 4 6	7 9 11	13 15 17
2.7	.02466	.02453	.02440	.02427	.02415	.02402	.02391	.02379	.02368	.02357	2 4 6	7 9 11	13 15 17
2.8	.02347	.02336	.02326	.02317	.02307	.02298	.02289	.02280	.02272	.02264	2 3 5	6 8 9	10 11 12
2.9	.02256	.02248	.02240	.02233	.02226	.02219	.02212	.02205	.02199	.02193	1 2 3	4 5 6	7 8 9
3.0	.02187	.02181	.02175	.02169	.02164	.02159	.02154	.02149	.02144	.02139	1 1 2	3 4 4	5 6 6
3.1	.02135	.02131	.02126	.02122	.02118	.02114	.02111	.02107	.02104	.02100	0 1 1	2 2 2	3 3 4
3.2	.020968	.020935	.020904		.020874	.020845	.020816	.020789			3 6 9	13 16 19	22 25 28
3.3								.020762	.020736	.020711	3 6 8	11 14 17	20 22 25
3.4	.020687	.020664	.020641	.020619	.020598						2 5 7	10 12 15	17 20 22
3.5						.020577	.020557	.020538	.020519	.020501	2 4 7	9 11 13	15 18 20
3.6	.020483	.020466	.020450	.020434	.020419						2 4 6	8 9 11	13 15 17
3.7						.020404	.020390	.020376	.020362	.020349	2 3 5	6 8 10	11 13 14
3.8	.020337	.020325	.020313	.020302	.020291	.020280	.020270	.020260	.020251	.020242	1 3 4	5 7 8	9 10 12
3.9	.020233	.020224	.020216	.020208	.020200	.020193	.020185	.020178	.020172	.020165	1 2 3	4 5 6	7 8 9
4.0	.020159	.020153	.020147	.020142	.020136	.020131	.020126	.020121	.020117	.020112	1 1 2	3 4 4	5 6 7
4.1	.020108	.020104	.020100	.020096	.020092	.020088	.020085	.020082	.020078	.020075	0 1 1	2 2 3	3 4 5
4.2	.020072	.020069	.020067	.020064	.020062	.020059	.020057	.020054	.020052	.020050			
4.3	.020048	.020046	.020044	.020042	.020041	.020039	.020037	.020036	.020034	.020033			

Jika $u \sim N(0,1)$, kebarangkalian ($u > z_{(p)}$) = Q

Contoh $p(u > 1.2) = Q(1.2) = 0.1151$

Kebarangkalian ($0 < u < a$) = $Q(0) - Q(a)$

Contoh $p(0 < u < 1.2) = Q(0) - Q(1.2)$

$$= 0.5 - 0.0179$$

$$= 0.4821$$

Bagi $z < 0$, $Q(z) = 1 - Q(-z) = P(-z)$

Contoh: $Q(-1.2) = 1 - Q(1.2) = 1 - 0.1151$

$$= 0.8849$$

Kebarangkalian ($|u| > a$) = $2Q(a)$

Contoh: $p(|u| > 1.2) = 2Q(1.2) = 0.2302$

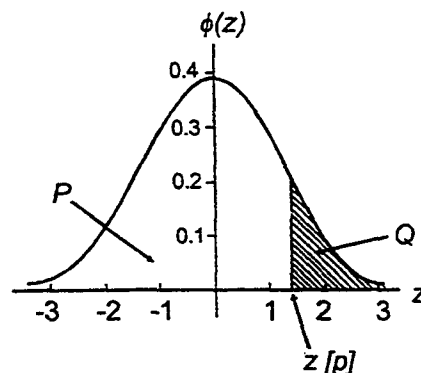
Kebarangkalian ($|u| < a$) = $1 - 2Q(a)$

Contoh: $p(|u| < 1.2) = 1 - 2Q(1.2) = 0.7698$

Takrif fungsi:
$$\phi(z) = \frac{1}{\sqrt{2\pi}} e^{-\frac{1}{2}z^2}$$

$$Q(z) = \int_z^{\infty} \phi(u) du,$$

$$P(z) = \int_{-\infty}^z \phi(u) du.$$



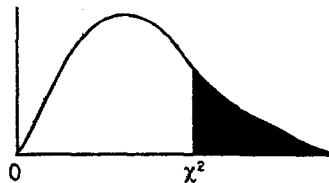
TITIK-TITIK PERATUSAN TABURAN KHI KUASA DUA

Jadual berikut memberikan titik $\chi^2_{\alpha, n}$, titik 100 α peratus bagi taburan khi kuasa dua

yang mempunyai darjah kebebasan ν .



α	$\nu = 1$	$\nu = 2$	$\nu = 3$	$\nu = 4$	$\nu = 5$	$\nu = 6$	$\nu = 7$	$\nu = 8$	$\nu = 9$	$\nu = 10$	$\nu = 11$	$\nu = 12$	$\nu = 13$	$\nu = 14$	$\nu = 15$	$\nu = 16$	$\nu = 17$	$\nu = 18$	$\nu = 19$	$\nu = 20$	$\nu = 21$	$\nu = 22$	$\nu = 23$	$\nu = 24$	$\nu = 25$	$\nu = 26$	$\nu = 27$	$\nu = 28$	$\nu = 29$	$\nu = 30$	$\nu = 40$	$\nu = 50$	$\nu = 60$	$\nu = 70$	$\nu = 80$	$\nu = 90$	$\nu = 100$																																																																																																																																																																																																																																																																																																																																																																				
.01	10.827	10.000	9.348	8.937	8.635	8.412	8.239	8.104	8.000	7.924	7.865	7.816	7.773	7.735	7.699	7.665	7.632	7.600	7.569	7.539	7.510	7.482	7.455	7.429	7.403	7.378	7.353	7.329	7.305	7.282	7.259	7.237	7.215	7.193	7.172	7.151	7.130	7.110	7.090	7.070	7.050	7.030	7.010	6.990	6.970	6.950	6.930	6.910	6.890	6.870	6.850	6.830	6.810	6.790	6.770	6.750	6.730	6.710	6.690	6.670	6.650	6.630	6.610	6.590	6.570	6.550	6.530	6.510	6.490	6.470	6.450	6.430	6.410	6.390	6.370	6.350	6.330	6.310	6.290	6.270	6.250	6.230	6.210	6.190	6.170	6.150	6.130	6.110	6.090	6.070	6.050	6.030	6.010	5.990	5.970	5.950	5.930	5.910	5.890	5.870	5.850	5.830	5.810	5.790	5.770	5.750	5.730	5.710	5.690	5.670	5.650	5.630	5.610	5.590	5.570	5.550	5.530	5.510	5.490	5.470	5.450	5.430	5.410	5.390	5.370	5.350	5.330	5.310	5.290	5.270	5.250	5.230	5.210	5.190	5.170	5.150	5.130	5.110	5.090	5.070	5.050	5.030	5.010	4.990	4.970	4.950	4.930	4.910	4.890	4.870	4.850	4.830	4.810	4.790	4.770	4.750	4.730	4.710	4.690	4.670	4.650	4.630	4.610	4.590	4.570	4.550	4.530	4.510	4.490	4.470	4.450	4.430	4.410	4.390	4.370	4.350	4.330	4.310	4.290	4.270	4.250	4.230	4.210	4.190	4.170	4.150	4.130	4.110	4.090	4.070	4.050	4.030	4.010	3.990	3.970	3.950	3.930	3.910	3.890	3.870	3.850	3.830	3.810	3.790	3.770	3.750	3.730	3.710	3.690	3.670	3.650	3.630	3.610	3.590	3.570	3.550	3.530	3.510	3.490	3.470	3.450	3.430	3.410	3.390	3.370	3.350	3.330	3.310	3.290	3.270	3.250	3.230	3.210	3.190	3.170	3.150	3.130	3.110	3.090	3.070	3.050	3.030	3.010	2.990	2.970	2.950	2.930	2.910	2.890	2.870	2.850	2.830	2.810	2.790	2.770	2.750	2.730	2.710	2.690	2.670	2.650	2.630	2.610	2.590	2.570	2.550	2.530	2.510	2.490	2.470	2.450	2.430	2.410	2.390	2.370	2.350	2.330	2.310	2.290	2.270	2.250	2.230	2.210	2.190	2.170	2.150	2.130	2.110	2.090	2.070	2.050	2.030	2.010	1.990	1.970	1.950	1.930	1.910	1.890	1.870	1.850	1.830	1.810	1.790	1.770	1.750	1.730	1.710	1.690	1.670	1.650	1.630	1.610	1.590	1.570	1.550	1.530	1.510	1.490	1.470	1.450	1.430	1.410	1.390	1.370	1.350	1.330	1.310	1.290	1.270	1.250	1.230	1.210	1.190	1.170	1.150	1.130	1.110	1.090	1.070	1.050	1.030	1.010	0.990	0.970	0.950	0.930	0.910	0.890	0.870	0.850	0.830	0.810	0.790	0.770	0.750	0.730	0.710	0.690	0.670	0.650	0.630	0.610	0.590	0.570	0.550	0.530	0.510	0.490	0.470	0.450	0.430	0.410	0.390	0.370	0.350	0.330	0.310	0.290	0.270	0.250	0.230	0.210	0.190	0.170	0.150	0.130	0.110	0.090	0.070	0.050	0.030	0.010

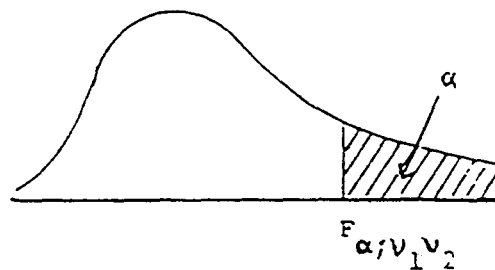
Sifir Nilai-Nilai Genting Bagi Taburan χ^2 

df	α							
	0.995	0.99	0.975	0.95	0.05	0.025	0.01	0.005
1	0.004393	0.03157	0.03982	0.02393	3.841	5.024	6.635	7.879
2	0.0100	0.0201	0.0506	0.103	5.991	7.378	9.210	10.597
3	0.0717	0.115	0.216	0.352	7.815	9.348	11.345	14.838
4	0.207	0.297	0.484	0.711	9.488	11.143	13.277	14.860
5	0.412	0.554	0.831	1.145	11.070	12.832	15.086	16.750
6	0.676	0.872	1.237	1.635	12.592	14.449	16.812	18.548
7	0.989	1.239	1.690	2.167	14.067	16.013	18.475	20.278
8	1.344	1.646	2.180	2.733	15.507	17.353	20.090	21.955
9	1.735	2.088	2.700	3.325	16.919	19.023	21.666	23.589
10	2.156	2.558	3.247	3.940	18.307	20.483	23.209	25.188
11	2.603	3.053	3.816	4.575	19.675	21.920	24.725	26.757
12	3.074	3.571	4.404	5.226	21.026	23.337	26.217	28.300
13	3.565	4.107	5.009	5.892	22.326	24.736	27.688	29.819
14	4.075	4.660	5.629	6.571	23.685	26.119	29.141	31.319
15	4.601	5.229	6.262	7.261	24.996	27.488	30.578	32.801
16	5.142	5.812	6.908	7.962	26.296	28.845	32.000	34.267
17	5.697	6.408	7.564	8.672	27.587	30.191	33.409	35.718
18	6.265	7.015	8.231	9.390	28.869	31.526	34.805	37.156
19	6.844	7.633	8.907	10.117	30.144	32.852	36.191	38.582
20	7.434	8.260	9.591	10.851	31.410	34.170	37.566	39.997
21	8.034	8.897	10.283	11.591	32.671	35.479	38.932	41.401
22	8.643	9.542	10.982	12.338	33.924	36.781	40.289	42.796
23	9.260	10.196	11.689	13.091	35.172	38.076	41.638	44.181
24	9.886	10.856	12.401	13.848	36.415	39.364	42.980	45.558
25	10.520	11.524	13.120	14.611	37.652	40.646	44.314	46.928
26	11.160	12.198	13.844	15.379	38.885	41.923	45.642	48.290
27	11.808	12.879	14.573	16.151	40.113	43.194	46.963	49.645
28	12.461	13.565	15.308	16.928	41.337	44.461	48.278	50.993
29	13.121	14.256	16.047	17.708	42.557	45.722	49.588	52.336
30	13.787	14.953	16.791	18.493	43.773	46.979	50.892	53.672

Sumber: Pearson, E.S. Biometrika Tables for Statistics. Vol. I, Biometrika Trustees

TITIK-TITIK PERATUSAN BAGI TABURAN F

Jadual berikut memberikan nilai-nilai $F_{\alpha; v_1, v_2}$ titik 100α peratus bagi taburan F yang mempunyai darjah kebebasan v_1 di dalam pembilang dan v_2 di dalam pembahagi. Terdapat empat nilai bagi setiap kombinasi v_1 dan v_2 . Nilai yang pertama ialah nilai titik F_{v_1, v_2} apabila $\alpha = 0.05$. Nilai yang kedua, ketiga dan keempat masing-masing ialah nilai F_{v_1, v_2} apabila $\alpha = 0.025$, $\alpha = 0.01$ dan $\alpha = 0.001$. Nilai $F_{0.025; v_1, v_2}$ diberikan di dalam kurungan.



$\nu_2 \backslash \nu_1$	1	2	3	4	5	6	7	8	10	12	24	∞	
1	161.4 (648) 4052 4053*	199.5 (800) 5000 5000*	215.7 (864) 5403 5404*	224.6 (900) 5625 5625*	230.2 (922) 5764 5764*	234.0 (937) 5859 5859*	238.8 (948) 5928 5929*	238.9 (957) 5981 5981*	241.9 (969) 6056 6056*	243.9 (977) 6106 6107*	249.0 (997) 6235 6235*	254.3 (1018) 6366 6366*	
2	18.5 (38.5) 98.5 998.5	19.0 (39.0) 99.0 999.0	19.2 (39.2) 99.2 999.2	19.2 (39.2) 99.2 999.2	19.3 (39.3) 99.3 999.3	19.3 (39.3) 99.3 999.3	19.4 (39.4) 99.4 999.4	19.4 (39.4) 99.4 999.4	19.4 (39.4) 99.4 999.4	19.4 (39.4) 99.4 999.4	19.5 (39.5) 99.5 999.5	19.5 (39.5) 99.5 999.5	
3	10.13 (17.4) 34.1 167.0	9.55 (16.0) 30.8 148.5	9.28 (15.4) 29.5 141.1	9.12 (15.1) 28.7 137.1	9.01 (14.9) 28.2 134.6	8.94 (14.7) 27.9 132.8	8.89 (14.6) 27.7 131.5	8.85 (14.5) 27.5 130.6	8.79 (14.4) 27.2 129.2	8.74 (14.3) 27.1 128.3	8.64 (14.1) 26.8 125.9	8.53 (13.9) 26.1 123.5	
4	7.71 (12.22) 21.2 74.14	6.94 (10.65) 18.0 61.25	6.59 (9.98) 16.7 56.18	6.39 (9.60) 16.0 53.44	6.26 (9.36) 15.5 51.71	6.16 (9.20) 15.2 50.53	6.09 (9.07) 15.0 49.66	6.04 (8.98) 14.8 49.00	5.98 (8.84) 14.5 48.05	5.91 (8.75) 14.4 47.41	5.77 (8.51) 13.9 45.77	5.63 (8.28) 13.5 44.05	
5	6.61 (10.01) 16.26 47.18	5.79 (8.43) 13.27 37.12	5.41 (7.76) 12.06 33.20	5.19 (7.39) 11.39 31.09	5.05 (7.15) 10.97 29.75	4.95 (6.98) 10.87 28.83	4.88 (6.85) 10.46 28.16	4.82 (6.76) 10.29 27.65	4.74 (6.62) 10.05 26.92	4.68 (6.52) 9.89 26.42	4.53 (6.28) 9.47 25.14	4.38 (6.02) 9.02 23.79	
6	5.99 (8.81) 13.74 35.51	5.14 (7.26) 10.92 27.00	4.76 (6.60) 9.78 23.70	4.53 (6.23) 9.15 21.92	4.39 (5.99) 8.75 20.80	4.28 (5.82) 8.47 20.03	4.21 (5.70) 8.26 19.46	4.15 (5.60) 8.10 19.03	4.06 (5.46) 7.87 18.41	4.00 (5.37) 7.72 17.99	3.84 (5.12) 7.31 16.90	3.67 (4.85) 6.88 15.75	
7	5.59 (8.07) 12.25 29.25	4.74 (6.54) 9.55 21.69	4.35 (5.89) 8.45 18.77	4.12 (5.52) 7.85 17.20	3.97 (5.29) 7.46 16.21	3.87 (5.12) 7.19 15.52	3.79 (4.99) 6.99 15.02	3.73 (4.90) 6.84 14.63	3.64 (4.76) 6.62 14.08	3.57 (4.67) 6.47 13.71	3.41 (4.42) 6.07 12.73	3.23 (4.14) 5.65 11.70	
8	5.32 (7.57) 11.26 25.42	4.46 (6.06) 8.65 18.49	4.07 (5.42) 7.59 15.83	3.84 (5.05) 7.01 14.39	3.69 (4.82) 6.63 13.48	3.58 (4.65) 6.37 12.86	3.50 (4.53) 6.18 12.40	3.44 (4.43) 6.03 12.05	3.35 (4.30) 5.81 11.54	3.28 (4.20) 5.67 11.19	3.12 (3.95) 5.28 10.30	2.93 (3.67) 4.86 9.34	
9	5.12 (7.21) 10.56 22.86	4.26 (5.71) 8.02 16.39	3.86 (5.08) 6.99 13.90	3.63 (4.72) 6.42 12.56	3.48 (4.48) 6.06 11.71	3.37 (4.32) 5.80 11.13	3.29 (4.20) 5.61 10.69	3.23 (4.10) 5.47 10.37	3.14 (3.96) 5.28 9.87	3.07 (3.87) 5.11 9.57	2.90 (3.61) 4.73 8.72	2.71 (3.33) 4.31 7.81	
10	4.96 (6.94) 10.04 21.04	4.10 (5.46) 7.56 14.91	3.71 (4.83) 6.55 12.55	3.48 (4.47) 5.99 11.28	3.33 (4.24) 5.64 10.48	3.22 (4.07) 5.39 9.93	3.14 (3.95) 5.20 9.52	3.07 (3.85) 5.06 9.20	2.93 (3.72) 4.85 8.74	2.91 (3.62) 4.71 8.44	2.74 (3.37) 4.33 7.64	2.54 (3.08) 3.91 6.76	
11	4.84 (6.72) 9.65 19.69	3.98 (5.26) 7.21 13.81	3.59 (4.63) 6.22 11.56	3.36 (4.28) 5.67 10.35	3.20 (4.04) 5.32 9.58	3.09 (3.88) 5.07 9.05	3.01 (3.76) 4.89 8.66	2.95 (3.66) 4.74 8.35	2.85 (3.53) 4.54 7.92	2.79 (3.43) 4.40 7.63	2.61 (3.17) 4.02 6.85	2.40 (2.88) 3.60 6.00	
12	4.75 (6.55) 9.33 18.64	3.89 (5.10) 6.93 12.97	3.49 (4.47) 5.95 10.80	3.26 (4.12) 5.41 9.63	3.11 (3.89) 5.06 8.89	3.00 (3.73) 4.82 8.38	2.91 (3.61) 4.64 8.00	2.85 (3.51) 4.50 7.71	2.75 (3.37) 4.30 7.29	2.69 (3.28) 4.16 7.00	2.51 (3.02) 3.78 6.25	2.30 (2.72) 3.36 5.42	
13	4.67 (6.41) 9.07 17.82	3.81 (4.97) 6.70 12.31	3.41 (4.35) 5.74 10.21	3.18 (4.00) 5.21 9.07	3.03 (3.77) 4.86 8.35	2.92 (3.60) 4.62 7.86	2.83 (3.48) 4.44 7.49	2.77 (3.39) 4.30 7.21	2.67 (3.25) 4.10 6.80	2.60 (3.15) 3.96 6.52	2.42 (2.89) 3.59 5.78	2.21 (2.60) 3.17 4.97	

* Entries marked thus must be multiplied by 100

ν_2	$\frac{1}{2}$	1	2	3	4	5	6	7	8	10	12	24	∞
14		4.60	3.74	3.34	3.11	2.96	2.85	2.76	2.70	2.60	2.53	2.35	2.13
		(6.30)	(4.86)	(4.24)	(3.89)	(3.66)	(3.50)	(3.38)	(3.29)	(3.15)	(3.05)	(2.79)	(2.49)
		8.86	6.51	5.56	5.04	4.70	4.46	4.28	4.14	3.94	3.80	3.43	3.00
		17.14	11.78	9.73	8.62	7.92	7.44	7.08	6.80	6.40	6.13	5.41	4.60
16		4.49	3.63	3.24	3.01	2.85	2.74	2.66	2.59	2.49	2.42	2.24	2.01
		(6.12)	(4.69)	(4.08)	(3.73)	(3.50)	(3.34)	(3.22)	(3.12)	(2.99)	(2.89)	(2.63)	(2.32)
		8.53	6.23	5.29	4.77	4.44	4.20	4.03	3.89	3.69	3.55	3.18	2.75
		16.12	10.97	9.01	7.94	7.27	6.80	6.46	6.19	5.81	5.55	4.85	4.06
18		4.41	3.55	3.16	2.93	2.77	2.66	2.58	2.51	2.41	2.34	2.15	1.92
		(5.98)	(4.56)	(3.95)	(3.61)	(3.38)	(3.22)	(3.10)	(3.01)	(2.87)	(2.77)	(2.50)	(2.19)
		8.29	6.01	5.09	4.58	4.25	4.01	3.84	3.71	3.51	3.37	3.00	2.57
		15.38	10.39	8.49	7.46	6.81	6.35	6.02	5.76	5.39	5.13	4.45	3.67
20		4.35	3.49	3.10	2.87	2.71	2.60	2.51	2.45	2.35	2.28	2.08	1.84
		(5.87)	(4.46)	(3.86)	(3.51)	(3.29)	(3.13)	(3.01)	(2.91)	(2.77)	(2.68)	(2.41)	(2.09)
		8.10	5.85	4.94	4.43	4.10	3.87	3.70	3.56	3.37	3.23	2.86	2.42
		14.82	9.95	8.10	7.10	6.46	6.02	5.69	5.44	5.08	4.82	4.15	3.38
22		4.30	3.44	3.05	2.82	2.66	2.55	2.46	2.40	2.30	2.23	2.03	1.78
		(5.79)	(4.38)	(3.78)	(3.44)	(3.22)	(3.05)	(2.93)	(2.84)	(2.70)	(2.60)	(2.33)	(2.00)
		7.95	5.72	4.82	4.31	3.99	3.76	3.59	3.45	3.26	3.12	2.75	2.31
		14.38	9.61	7.80	6.81	6.19	5.76	5.44	5.19	4.83	4.58	3.92	3.15
24		4.26	3.40	3.01	2.78	2.62	2.51	2.42	2.36	2.25	2.18	1.98	1.73
		(5.72)	(4.32)	(3.72)	(3.38)	(3.15)	(2.99)	(2.87)	(2.78)	(2.64)	(2.54)	(2.27)	(1.94)
		7.82	5.61	4.72	4.22	3.90	3.67	3.50	3.36	3.17	3.03	2.66	2.21
		14.03	9.34	7.55	6.59	5.98	5.55	5.23	4.99	4.64	4.39	3.74	2.97
26		4.23	3.37	2.98	2.74	2.59	2.47	2.39	2.32	2.22	2.15	1.95	1.69
		(5.66)	(4.27)	(3.67)	(3.33)	(3.10)	(2.94)	(2.82)	(2.73)	(2.59)	(2.49)	(2.22)	(1.88)
		7.72	5.53	4.64	4.14	3.82	3.59	3.42	3.29	3.09	2.96	2.58	2.13
		13.74	9.12	7.36	6.41	5.80	5.38	5.07	4.83	4.48	4.24	3.59	2.82
28		4.20	3.34	2.95	2.71	2.56	2.45	2.36	2.29	2.19	2.12	1.91	1.65
		(5.61)	(4.22)	(3.63)	(3.29)	(3.06)	(2.90)	(2.78)	(2.69)	(2.55)	(2.45)	(2.17)	(1.83)
		7.64	5.45	4.57	4.07	3.75	3.53	3.36	3.23	3.03	2.90	2.52	2.06
		13.50	8.93	7.19	6.25	5.66	5.24	4.93	4.69	4.35	4.11	3.46	2.69
30		4.17	3.32	2.92	2.69	2.53	2.42	2.33	2.27	2.16	2.09	1.89	1.62
		(5.57)	(4.18)	(3.59)	(3.25)	(3.03)	(2.87)	(2.75)	(2.65)	(2.51)	(2.41)	(2.14)	(1.79)
		7.56	5.39	4.51	4.02	3.70	3.47	3.30	3.17	2.98	2.84	2.47	2.01
		13.29	8.77	7.05	6.12	5.53	5.12	4.82	4.58	4.24	4.00	3.36	2.59
40		4.08	3.23	2.84	2.61	2.45	2.34	2.25	2.18	2.08	2.00	1.79	1.51
		(5.42)	(4.05)	(3.46)	(3.13)	(2.90)	(2.74)	(2.62)	(2.53)	(2.39)	(2.29)	(2.01)	(1.64)
		7.31	5.18	4.31	3.83	3.51	3.29	3.12	2.99	2.80	2.66	2.29	1.80
		12.61	8.25	6.59	5.70	5.13	4.73	4.44	4.21	3.87	3.64	3.01	2.23
60		4.00	3.15	2.76	2.53	2.37	2.25	2.17	2.10	1.99	1.92	1.70	1.39
		(5.29)	(3.93)	(3.34)	(3.01)	(2.79)	(2.63)	(2.51)	(2.41)	(2.27)	(2.17)	(1.88)	(1.48)
		7.08	4.98	4.13	3.65	3.34	3.12	2.95	2.82	2.63	2.50	2.12	1.60
		11.97	7.77	6.17	5.31	4.76	4.37	4.09	3.86	3.54	3.32	2.69	1.89
120		3.92	3.07	2.68	2.45	2.29	2.18	2.09	2.02	1.91	1.83	1.61	1.25
		(5.15)	(3.80)	(3.23)	(2.89)	(2.67)	(2.52)	(2.39)	(2.30)	(2.16)	(2.05)	(1.76)	(1.31)
		6.85	4.79	3.95	3.48	3.17	2.96	2.79	2.66	2.47	2.34	1.95	1.38
		11.38	7.32	5.78	4.95	4.42	4.04	3.77	3.55	3.24	3.02	2.40	1.54
∞		3.84	3.00	2.60	2.37	2.21	2.10	2.01	1.94	1.83	1.75	1.52	1.00
		(5.02)	(3.69)	(3.12)	(2.79)	(2.57)	(2.41)	(2.29)	(2.19)	(2.05)	(1.94)	(1.64)	(1.00)
		6.63	4.61	3.78	3.32	3.02	2.80	2.64	2.51	2.32	2.18	1.79	1.00
		10.83	6.91	5.42	4.62	4.10	3.74	3.47	3.27	2.96	2.74	2.13	1.00

IV. Titik Peratusan Taburan F

		F_{25, ν_1, ν_2}																		
ν_2	ν_1	Darjah Kebebasan Pembilang (ν_1)																		
		1	2	3	4	5	6	7	8	9	10	12	15	20	24	30	40	60	120	∞
Darjah Kebebasan Penyebut (ν_2)	1	5.83	7.50	8.20	8.58	8.82	8.98	9.10	9.19	9.26	9.32	9.41	9.49	9.58	9.63	9.67	9.71	9.76	9.80	9.85
	2	2.57	3.00	3.15	3.23	3.28	3.31	3.34	3.35	3.37	3.38	3.39	3.41	3.43	3.43	3.44	3.45	3.46	3.47	3.48
	3	2.02	2.28	2.36	2.39	2.41	2.42	2.43	2.44	2.44	2.44	2.45	2.46	2.46	2.46	2.47	2.47	2.47	2.47	2.47
	4	1.81	2.00	2.05	2.06	2.07	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08
	5	1.69	1.85	1.88	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.88	1.88	1.88	1.88	1.88	1.87	1.87
	6	1.62	1.76	1.78	1.79	1.79	1.78	1.78	1.78	1.77	1.77	1.77	1.76	1.76	1.75	1.75	1.75	1.74	1.74	1.74
	7	1.57	1.70	1.72	1.72	1.71	1.71	1.70	1.70	1.70	1.69	1.68	1.68	1.67	1.67	1.66	1.66	1.65	1.65	1.65
	8	1.54	1.66	1.67	1.66	1.66	1.65	1.64	1.64	1.63	1.63	1.62	1.62	1.61	1.60	1.60	1.59	1.59	1.58	1.58
	9	1.51	1.62	1.63	1.63	1.62	1.61	1.60	1.60	1.59	1.59	1.58	1.57	1.56	1.56	1.55	1.54	1.54	1.53	1.53
	10	1.49	1.60	1.60	1.59	1.59	1.58	1.57	1.56	1.56	1.55	1.54	1.53	1.52	1.52	1.51	1.51	1.50	1.49	1.48
	11	1.47	1.58	1.58	1.57	1.56	1.55	1.54	1.53	1.53	1.52	1.51	1.50	1.49	1.49	1.48	1.47	1.47	1.46	1.45
	12	1.46	1.56	1.56	1.55	1.54	1.53	1.52	1.51	1.51	1.50	1.49	1.48	1.47	1.46	1.45	1.45	1.44	1.43	1.42
	13	1.45	1.55	1.55	1.53	1.52	1.51	1.50	1.49	1.49	1.48	1.47	1.46	1.45	1.44	1.43	1.42	1.42	1.41	1.40
	14	1.44	1.53	1.53	1.52	1.51	1.50	1.49	1.48	1.47	1.46	1.45	1.44	1.43	1.42	1.41	1.41	1.40	1.39	1.38
	15	1.43	1.52	1.52	1.51	1.49	1.48	1.47	1.46	1.46	1.45	1.44	1.43	1.41	1.41	1.40	1.39	1.38	1.37	1.36
	16	1.42	1.51	1.51	1.50	1.48	1.47	1.46	1.45	1.44	1.44	1.43	1.41	1.40	1.39	1.38	1.37	1.36	1.35	1.34
	17	1.42	1.51	1.50	1.49	1.47	1.46	1.45	1.44	1.43	1.43	1.41	1.40	1.39	1.38	1.37	1.36	1.35	1.34	1.33
	18	1.41	1.50	1.49	1.48	1.46	1.45	1.44	1.43	1.42	1.42	1.40	1.39	1.38	1.37	1.36	1.35	1.34	1.33	1.32
	19	1.41	1.49	1.49	1.47	1.46	1.44	1.43	1.42	1.41	1.41	1.40	1.38	1.37	1.36	1.35	1.34	1.33	1.32	1.30
	20	1.40	1.49	1.48	1.47	1.45	1.44	1.43	1.42	1.41	1.40	1.39	1.37	1.36	1.35	1.34	1.33	1.32	1.31	1.29
	21	1.40	1.48	1.48	1.46	1.44	1.43	1.42	1.41	1.40	1.39	1.38	1.37	1.35	1.34	1.33	1.32	1.31	1.30	1.28
	22	1.40	1.48	1.47	1.45	1.44	1.42	1.41	1.40	1.39	1.39	1.37	1.36	1.34	1.33	1.32	1.31	1.30	1.29	1.28
	23	1.39	1.47	1.47	1.45	1.43	1.42	1.41	1.40	1.39	1.38	1.37	1.35	1.34	1.33	1.32	1.31	1.30	1.28	1.27
	24	1.39	1.47	1.46	1.44	1.43	1.41	1.40	1.39	1.38	1.38	1.36	1.35	1.33	1.32	1.31	1.30	1.29	1.28	1.26
	25	1.39	1.47	1.46	1.44	1.42	1.41	1.40	1.39	1.38	1.37	1.36	1.34	1.33	1.32	1.31	1.29	1.28	1.27	1.25
	26	1.38	1.46	1.45	1.44	1.42	1.41	1.39	1.38	1.37	1.37	1.35	1.34	1.32	1.31	1.30	1.29	1.28	1.26	1.25
	27	1.38	1.46	1.45	1.43	1.42	1.40	1.39	1.38	1.37	1.36	1.35	1.33	1.32	1.31	1.30	1.28	1.27	1.26	1.24
	28	1.38	1.46	1.45	1.43	1.41	1.40	1.39	1.38	1.37	1.36	1.34	1.33	1.31	1.30	1.29	1.28	1.27	1.25	1.24
	29	1.38	1.45	1.45	1.43	1.41	1.40	1.38	1.37	1.36	1.35	1.34	1.32	1.31	1.30	1.29	1.27	1.26	1.25	1.23
	30	1.38	1.45	1.44	1.42	1.41	1.39	1.38	1.37	1.36	1.35	1.34	1.32	1.30	1.29	1.28	1.27	1.26	1.24	1.23
40	1.36	1.44	1.42	1.40	1.39	1.37	1.36	1.35	1.34	1.33	1.31	1.30	1.28	1.26	1.25	1.24	1.22	1.21	1.19	
60	1.35	1.42	1.41	1.38	1.37	1.35	1.33	1.32	1.31	1.30	1.29	1.27	1.25	1.24	1.22	1.21	1.19	1.17	1.15	
120	1.34	1.40	1.39	1.37	1.35	1.33	1.31	1.30	1.29	1.28	1.26	1.24	1.22	1.21	1.19	1.18	1.16	1.13	1.10	
∞	1.32	1.39	1.37	1.35	1.33	1.31	1.29	1.28	1.27	1.25	1.24	1.22	1.19	1.18	1.16	1.14	1.12	1.08	1.00	

Dipadankan dengan kebenaran daripada *Biometrika Tables for Statisticians*, Jil. 1, Edisi Ketiga, oleh E. S. Pearson dan H. O. Hartley, Cambridge University Press, Cambridge, 1966.

Baris Atas Baris Bawah

* Nilai-nilai Genteng Untuk Taburan F Bagi Aras Keertian 5% (Cetakan Biasan) Dan 1% (Cetakan Gelap)

Darjah Kebebasan Untuk Pembawaan (df)	Darjah Kebebasan Untuk Pengatas (df)																									
	1	2	3	4	5	6	7	8	9	10	11	12	14	16	20	24	30	40	50	75	100	200	500	x		
1	161 4052	230 4999	216 5403	223 5625	230 5764	234 5859	237 5928	239 5981	241 6022	242 6056	243 6082	244 6106	245 6142	246 6169	248 6208	249 6234	250 6258	251 6286	252 6302	253 6323	253 6334	254 6352	254 6361	254 6366	254 6366	
2	18.51 98.49	19.00 99.01	19.16 99.17	19.25 99.25	19.30 99.30	19.33 99.34	19.36 99.34	19.37 99.36	19.38 99.38	19.39 99.40	19.40 99.41	19.41 99.42	19.42 99.43	19.43 99.44	19.44 99.45	19.45 99.46	19.46 99.47	19.47 99.48	19.48 99.49	19.48 99.49	19.49 99.49	19.50 99.50	19.50 99.50	19.50 99.50	19.50 99.50	
3	10.13 34.12	9.55 30.31	9.28 29.46	9.12 28.71	9.01 28.24	8.88 27.57	8.88 27.57	8.84 27.49	8.81 27.34	8.79 27.23	8.78 27.13	8.74 27.05	8.71 26.92	8.69 26.83	8.66 26.69	8.64 26.60	8.62 26.50	8.60 26.41	8.58 26.30	8.57 26.27	8.56 26.23	8.54 26.18	8.54 26.14	8.53 26.12	8.53 26.12	
4	7.71 21.20	6.94 18.00	6.59 16.69	6.39 15.93	6.26 15.52	6.16 15.21	6.09 14.98	6.04 14.80	6.00 14.66	5.96 14.54	5.93 14.45	5.91 14.37	5.87 14.24	5.84 14.15	5.80 14.02	5.77 13.93	5.74 13.83	5.71 13.74	5.70 13.69	5.68 13.61	5.66 13.57	5.65 13.52	5.64 13.48	5.64 13.46	5.63 13.46	
5	6.61 16.26	5.79 13.87	5.41 12.06	5.19 11.30	5.05 10.97	4.25 10.67	4.88 10.45	4.82 10.27	4.78 10.15	4.74 10.05	4.70 9.96	4.68 9.89	4.64 9.77	4.60 9.68	4.56 9.55	4.53 9.47	4.50 9.39	4.46 9.29	4.44 9.24	4.42 9.17	4.40 9.13	4.38 9.07	4.37 9.04	4.36 9.02	4.36 9.02	
6	5.99 13.74	5.14 10.92	4.76 9.78	4.53 9.15	4.39 8.75	4.21 8.17	4.15 8.26	4.10 8.10	4.06 7.98	4.03 7.87	4.00 7.79	3.96 7.72	3.92 7.60	3.87 7.52	3.84 7.39	3.81 7.31	3.77 7.23	3.75 7.14	3.72 7.09	3.71 7.02	3.69 6.99	3.68 6.94	3.67 6.90	3.66 6.88	3.65 6.88	
7	5.59 12.75	4.74 9.55	4.35 8.45	4.12 7.85	3.97 7.46	3.79 7.19	3.73 7.00	3.68 6.84	3.63 6.71	3.53 6.62	3.50 6.54	3.49 6.47	3.44 6.35	3.41 6.27	3.38 6.15	3.34 6.07	3.32 5.98	3.29 5.90	3.28 5.85	3.28 5.78	3.25 5.75	3.24 5.70	3.23 5.67	3.22 5.65	3.21 5.65	
8	5.32 11.26	4.46 8.55	4.07 7.59	3.81 7.01	3.69 6.83	3.58 6.37	3.50 6.19	3.44 6.03	3.39 5.91	3.34 5.82	3.31 5.74	3.28 5.67	3.23 5.56	3.20 5.48	3.15 5.36	3.12 5.28	3.08 5.11	3.05 5.06	3.03 5.00	3.00 4.96	2.98 4.91	2.96 4.88	2.94 4.86	2.93 4.84	2.92 4.84	
9	5.12 10.56	4.26 8.02	3.86 6.93	3.63 6.42	3.48 6.06	3.37 5.30	3.29 5.62	3.23 5.47	3.18 5.35	3.13 5.26	3.10 5.18	3.07 5.11	3.02 5.00	2.98 4.92	2.93 4.80	2.90 4.73	2.86 4.64	2.82 4.58	2.80 4.51	2.77 4.45	2.76 4.41	2.73 4.36	2.72 4.33	2.71 4.31	2.70 4.31	
10	4.96 10.04	4.10 7.56	3.71 6.55	3.48 5.99	3.33 5.64	3.22 5.21	3.14 5.21	3.07 5.06	3.02 4.95	2.97 4.85	2.94 4.78	2.91 4.71	2.86 4.60	2.82 4.52	2.77 4.41	2.74 4.33	2.70 4.25	2.67 4.17	2.64 4.12	2.61 4.06	2.59 4.01	2.56 3.96	2.55 3.93	2.54 3.91	2.53 3.91	
11	4.84 9.65	3.98 6.23	3.59 5.29	3.35 4.77	3.20 4.44	3.09 4.20	3.01 4.03	2.95 3.89	2.90 3.78	2.86 3.69	2.82 3.61	2.79 3.56	2.74 3.48	2.70 3.40	2.65 3.32	2.61 3.25	2.57 3.18	2.53 3.10	2.50 3.01	2.47 2.96	2.45 2.89	2.42 2.86	2.41 2.84	2.40 2.82	2.39 2.81	
12	4.75 9.33	3.88 6.93	3.49 5.85	3.25 5.41	3.11 5.06	3.00 4.82	2.92 4.65	2.85 4.50	2.80 4.39	2.76 4.30	2.72 4.22	2.69 4.16	2.64 4.05	2.60 3.98	2.54 3.86	2.50 3.78	2.46 3.70	2.42 3.61	2.40 3.56	2.36 3.49	2.35 3.46	2.32 3.41	2.31 3.38	2.30 3.35	2.29 3.33	
13	4.67 9.07	3.80 6.70	3.41 5.74	3.18 5.20	3.02 4.86	2.92 4.62	2.84 4.44	2.77 4.30	2.72 4.19	2.67 4.10	2.63 4.02	2.59 3.96	2.55 3.85	2.51 3.78	2.46 3.67	2.42 3.59	2.38 3.51	2.34 3.42	2.32 3.37	2.29 3.30	2.28 3.27	2.26 3.21	2.24 3.18	2.22 3.15	2.21 3.15	
14	4.60 8.86	3.74 6.53	3.34 5.56	3.11 5.03	2.96 4.69	2.85 4.46	2.77 4.28	2.70 4.14	2.65 4.03	2.60 3.94	2.56 3.86	2.53 3.80	2.48 3.70	2.44 3.62	2.39 3.51	2.35 3.43	2.31 3.34	2.27 3.26	2.24 3.21	2.21 3.14	2.19 3.11	2.16 3.06	2.14 3.02	2.13 3.02	2.13 3.02	
15	4.54 8.68	3.68 6.36	3.29 5.42	3.06 4.89	2.90 4.56	2.79 4.32	2.70 4.14	2.64 4.00	2.59 3.89	2.55 3.80	2.51 3.73	2.48 3.67	2.43 3.58	2.39 3.48	2.33 3.36	2.29 3.29	2.25 3.20	2.21 3.12	2.18 3.07	2.15 3.00	2.12 2.97	2.10 2.92	2.08 2.89	2.07 2.87	2.07 2.87	
16	4.49 8.53	3.53 6.23	3.24 5.29	3.01 4.77	2.85 4.44	2.74 4.20	2.66 4.03	2.59 3.89	2.54 3.78	2.49 3.69	2.45 3.61	2.42 3.55	2.37 3.45	2.33 3.37	2.28 3.25	2.24 3.18	2.20 3.10	2.16 3.01	2.13 2.96	2.09 2.89	2.07 2.86	2.04 2.82	2.02 2.79	2.01 2.77	2.01 2.77	
17	4.45 8.40	3.59 6.11	3.20 5.18	2.96 4.07	2.81 4.34	2.70 4.10	2.62 3.93	2.55 3.79	2.50 3.68	2.45 3.59	2.41 3.52	2.38 3.45	2.33 3.35	2.29 3.27	2.23 3.16	2.19 3.08	2.15 3.00	2.11 2.92	2.08 2.86	2.04 2.79	2.02 2.76	1.99 2.70	1.97 2.67	1.95 2.65	1.95 2.65	
18	4.41 8.28	3.55 6.01	3.16 5.09	2.90 4.58	2.77 4.25	2.66 4.01	2.58 3.85	2.51 3.71	2.46 3.60	2.41 3.51	2.37 3.44	2.34 3.37	2.29 3.27	2.25 3.19	2.19 3.07	2.15 3.00	2.11 2.91	2.07 2.83	2.04 2.78	2.00 2.71	1.98 2.68	1.95 2.62	1.93 2.59	1.92 2.55	1.92 2.55	
19	4.38 8.18	3.52 5.93	3.13 5.01	2.90 4.50	2.74 4.17	2.63 3.94	2.55 3.77	2.48 3.63	2.43 3.52	2.38 3.43	2.34 3.36	2.31 3.30	2.26 3.20	2.21 3.12	2.15 3.00	2.11 2.92	2.07 2.84	2.02 2.76	2.00 2.70	1.96 2.63	1.94 2.60	1.91 2.54	1.89 2.51	1.88 2.49	1.88 2.49	
20	4.35 8.10	3.49 5.85	3.10 4.94	2.87 4.48	2.71 4.10	2.60 3.87	2.52 3.71	2.45 3.56	2.40 3.45	2.35 3.37	2.31 3.30	2.28 3.23	2.23 3.13	2.18 3.05	2.12 2.94	2.08 2.86	2.04 2.77	1.99 2.69	1.96 2.63	1.92 2.56	1.90 2.53	1.87 2.47	1.85 2.44	1.84 2.42	1.84 2.42	
21	4.32 8.02	3.47 5.78	3.07 4.87	2.81 4.37	2.68 4.04	2.57 3.81	2.49 3.65	2.42 3.51	2.37 3.40	2.32 3.31	2.28 3.24	2.25 3.17	2.20 3.07	2.15 2.99	2.09 2.88	2.05 2.80	2.00 2.72	1.96 2.63	1.93 2.58	1.89 2.51	1.87 2.47	1.84 2.42	1.82 2.38	1.81 2.36	1.81 2.36	
22	4.30 7.94	3.44 5.72	3.05 4.82	2.82 4.31	2.66 3.99	2.55 3.76	2.47 3.59	2.40 3.45	2.35 3.35	2.30 3.26	2.26 3.18	2.23 3.12	2.18 3.02	2.13 2.94	2.07 2.83	2.03 2.75	1.98 2.67	1.93 2.58	1.91 2.53	1.87 2.46	1.84 2.42	1.81 2.37	1.80 2.33	1.79 2.31	1.79 2.31	
23	4.28 7.88	3.42 5.66	3.03 4.76	2.80 4.25	2.64 3.94	2.53 3.71	2.45 3.54	2.38 3.41	2.32 3.30	2.28 3.21	2.24 3.14	2.20 3.07	2.14 2.97	2.10 2.89	2.04 2.78	2.00 2.70	1.96 2.62	1.91 2.53	1.88 2.48	1.84 2.41	1.82 2.37	1.79 2.32	1.77 2.28	1.76 2.26	1.76 2.26	

-5%
-1%

* Sambungan Lampiran 7.2

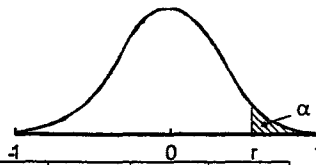
Darjah Kebebasan Untuk Pembawah (df.)	Darjah Kebebasan Untuk Pengatas (df.)																									
	1	2	3	4	5	6	7	8	9	10	11	12	14	16	20*	24	30	40	50	75	100	200	500	x		
24	4.28	3.40	3.01	2.78	2.62	2.51	2.43	2.36	2.30	2.26	2.22	2.18	2.13	2.09	2.02	2.02	1.96	1.94	1.89	1.86	1.82	1.80	1.76	1.74	1.71	
25	4.24	3.38	2.99	2.76	2.60	2.49	2.41	2.34	2.28	2.24	2.20	2.16	2.11	2.06	2.00	1.96	1.92	1.87	1.84	1.80	1.77	1.74	1.72	1.70		
26	4.77	3.37	2.89	2.74	2.59	2.47	2.39	2.32	2.27	2.22	2.18	2.15	2.10	2.05	1.99	1.95	1.90	1.85	1.78	1.78	1.76	1.72	1.70	1.69		
27	4.21	3.35	2.96	2.73	2.57	2.46	2.37	2.30	2.25	2.20	2.16	2.13	2.08	2.03	1.97	1.93	1.88	1.84	1.76	1.76	1.74	1.71	1.69	1.67		
28	4.20	3.34	2.95	2.71	2.56	2.44	2.36	2.29	2.24	2.19	2.15	2.12	2.06	2.02	1.96	1.91	1.87	1.81	1.75	1.75	1.72	1.69	1.67	1.65		
29	4.18	3.33	2.93	2.70	2.54	2.43	2.35	2.28	2.22	2.18	2.14	2.10	2.05	2.00	1.94	1.90	1.85	1.80	1.73	1.73	1.71	1.68	1.65	1.64		
30	4.17	3.32	2.92	2.69	2.53	2.42	2.34	2.27	2.21	2.16	2.12	2.08	2.04	1.99	1.93	1.89	1.84	1.79	1.72	1.72	1.69	1.66	1.64	1.62		
32	4.16	3.30	2.90	2.67	2.51	2.40	2.32	2.25	2.19	2.14	2.10	2.07	2.02	1.97	1.91	1.86	1.82	1.76	1.69	1.69	1.67	1.64	1.61	1.60		
34	4.13	3.28	2.88	2.65	2.49	2.38	2.30	2.23	2.17	2.12	2.08	2.05	2.00	1.95	1.89	1.84	1.80	1.74	1.67	1.67	1.64	1.61	1.59	1.57		
36	4.11	3.26	2.86	2.63	2.48	2.36	2.28	2.21	2.15	2.10	2.06	2.03	1.89	1.93	1.87	1.82	1.78	1.72	1.69	1.65	1.62	1.59	1.56	1.55		
38	4.10	3.25	2.85	2.62	2.46	2.35	2.26	2.19	2.14	2.09	2.05	2.02	1.96	1.92	1.85	1.80	1.76	1.71	1.67	1.63	1.60	1.57	1.54	1.53		
40	4.08	3.23	2.84	2.61	2.45	2.34	2.25	2.18	2.12	2.07	2.04	2.00	1.95	1.90	1.84	1.79	1.74	1.69	1.65	1.61	1.59	1.55	1.53	1.51		
42	4.07	3.22	2.83	2.59	2.44	2.32	2.24	2.17	2.11	2.06	2.02	1.99	1.94	1.89	1.82	1.78	1.73	1.68	1.64	1.60	1.57	1.54	1.51	1.49		
44	4.06	3.21	2.82	2.58	2.43	2.31	2.23	2.16	2.10	2.05	2.01	1.96	1.92	1.88	1.81	1.76	1.72	1.66	1.63	1.58	1.56	1.52	1.50	1.48		
46	4.05	3.20	2.81	2.57	2.42	2.30	2.22	2.14	2.09	2.04	2.00	1.97	1.91	1.87	1.80	1.75	1.71	1.65	1.62	1.57	1.54	1.51	1.48	1.40		
48	4.04	3.19	2.80	2.56	2.41	2.30	2.21	2.14	2.08	2.03	1.99	1.96	1.90	1.86	1.79	1.74	1.70	1.64	1.61	1.56	1.53	1.50	1.47	1.45		
50	4.03	3.18	2.79	2.56	2.40	2.29	2.20	2.13	2.07	2.02	1.98	1.95	1.90	1.85	1.78	1.74	1.69	1.63	1.60	1.55	1.52	1.48	1.46	1.43		
55	4.02	3.17	2.78	2.54	2.38	2.27	2.18	2.11	2.05	2.00	1.97	1.93	1.88	1.83	1.76	1.72	1.67	1.61	1.58	1.52	1.50	1.46	1.43	1.41		
60	4.00	3.15	2.76	2.52	2.37	2.25	2.17	2.10	2.04	1.99	1.95	1.92	1.86	1.81	1.75	1.70	1.65	1.59	1.56	1.50	1.48	1.44	1.41	1.39		
65	3.99	3.14	2.75	2.51	2.36	2.24	2.15	2.08	2.02	1.98	1.94	1.90	1.85	1.80	1.73	1.68	1.63	1.57	1.54	1.49	1.46	1.42	1.39	1.37		
70	3.98	3.13	2.74	2.50	2.35	2.23	2.14	2.07	2.01	1.97	1.93	1.89	1.84	1.79	1.72	1.67	1.62	1.56	1.53	1.47	1.45	1.40	1.37	1.35		
80	3.96	3.11	2.72	2.48	2.33	2.21	2.12	2.05	1.99	1.95	1.91	1.88	1.82	1.77	1.70	1.65	1.60	1.54	1.51	1.45	1.42	1.38	1.35	1.32		
100	3.94	3.09	2.70	2.46	2.30	2.19	2.10	2.03	1.97	1.93	1.88	1.85	1.79	1.75	1.68	1.63	1.57	1.51	1.48	1.42	1.39	1.34	1.30	1.28		
125	3.92	3.07	2.68	2.44	2.29	2.17	2.08	2.01	1.95	1.90	1.86	1.83	1.77	1.72	1.65	1.60	1.55	1.49	1.45	1.39	1.36	1.31	1.27	1.25		
150	3.91	3.06	2.67	2.43	2.27	2.16	2.07	2.00	1.94	1.89	1.85	1.82	1.76	1.71	1.64	1.59	1.54	1.47	1.44	1.37	1.34	1.29	1.25	1.22		
200	3.89	3.04	2.65	2.41	2.26	2.14	2.05	1.98	1.92	1.87	1.83	1.80	1.74	1.69	1.62	1.57	1.52	1.45	1.42	1.35	1.32	1.26	1.22	1.19		
400	3.86	3.02	2.62	2.39	2.23	2.12	2.03	1.96	1.90	1.85	1.81	1.78	1.72	1.67	1.60	1.54	1.49	1.42	1.38	1.32	1.28	1.22	1.16	1.13		
1000	3.85	3.00	2.61	2.38	2.22	2.10	2.02	1.95	1.89	1.84	1.80	1.76	1.70	1.65	1.58	1.53	1.47	1.41	1.36	1.30	1.26	1.19	1.13	1.08		
	3.84	2.99	2.60	2.37	2.21	2.09	2.01	1.94	1.88	1.83	1.79	1.75	1.69	1.64	1.57	1.52	1.46	1.40	1.35	1.28	1.24	1.17	1.11	1.00		
	6.64	4.60	3.78	3.32	3.02	2.80	2.64	2.51	2.41	2.32	2.24	2.18	2.07	1.99	1.87	1.79	1.69	1.59	1.52	1.41	1.36	1.25	1.15	1.00		

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* Pengubahsuaian Jadual G daripada Daniel, W.W., Biostatistics A Foundation for Analysis in the health Sciences, 7th ed. 1999, John Wiley & Sons, Inc. new York

Nilai-nilai Genting untuk Pekali Korelasi Pearson, r

Untuk ujian dua hujung, α ialah dua kali nilai aras keertian yang tercatat di pangkal sifir setiap lajur untuk nilai-nilai genting bagi r . Misalnya bagi $\alpha = 0.05$, pilih lajur untuk 0.025.



$v \backslash \alpha$	0.05	0.025	0.010	0.005	$v \backslash \alpha$	0.05	0.025	0.010	0.005
5	0.805	0.878	0.934	0.959	17	0.412	0.482	0.558	0.606
6	0.729	0.811	0.882	0.917	18	0.400	0.468	0.542	0.590
7	0.669	0.754	0.833	0.875	19	0.389	0.456	0.528	0.575
8	0.621	0.707	0.789	0.834	20	0.378	0.444	0.516	0.561
9	0.582	0.666	0.750	0.798	25	0.337	0.396	0.462	0.505
10	0.549	0.632	0.716	0.765	30	0.306	0.361	0.423	0.463
11	0.521	0.602	0.685	0.735	40	0.264	0.312	0.366	0.402
12	0.497	0.576	0.658	0.708	50	0.235	0.279	0.328	0.361
13	0.476	0.553	0.634	0.684	60	0.214	0.254	0.300	0.330
14	0.457	0.532	0.612	0.661	80	0.185	0.220	0.260	0.286
15	0.441	0.514	0.592	0.641	100	0.165	0.196	0.232	0.256
16	0.426	0.497	0.574	0.623					

Jadual yang diubahsuai daripada Paul G. Hoel, elementary Statistics, 3ed, 1971, John Wiley and Sons, Inc.