

MODUL PINTAS TINGKATAN LIMA

2 JAM

ARAHAN :

1. Jangan Buka Kertas Peperiksaan Ini Sehingga Diberitahu.
2. Tulis nombor kad pengenalan, angka giliran, nama, tingkatan anda pada petak yang disediakan.
3. Kertas peperiksaan ini adalah dalam dwibahasa.
4. Soalan dalam bahasa Melayu mendahului soalan yang sepadan dalam bahasa Inggeris.
5. Calon dibenarkan menjawab keseluruhan soalan atau sebahagian soalan sama ada dalam bahasa Melayu atau bahasa Inggeris.
6. Calon dikehendaki membaca maklumat di halaman belakang kertas peperiksaan ini.

Untuk Kegunaan Pemeriksa

Kod Pemeriksa				
Bahagian	Soalan	Soalan Dijawab	Markah Penuh	Markah Diperoleh (Untuk Kegunaan Pemeriksa)
A	1		7	
	2		4	
	3		5	
	4		7	
	5		7	
	6		6	
	7		4	
	8		4	
	9		5	
	10		4	
	11		6	
	12		5	
B	13		8	
	14		8	
	15		8	
Jumlah				

NO. KAD PENGENALAN

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ANGKA GILIRAN

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NAMA :

TINGKATAN :

Kertas peperiksaan ini mengandungi 27 halaman bercetak dan 1 halaman tidak bercetak.

3472/1

MATEMATIK TAMBAHAN

Kertas 1

Rumus-rumus berikut boleh membantu anda menjawab soalan. Simbol-simbol yang diberi adalah yang biasa digunakan.

The following formulae may be helpful in answering the questions. The symbols given are the ones commonly used.

SENARAI RUMUS
LIST OF FORMULAE

$$1 \quad x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$2 \quad \log_a b = \frac{\log_c b}{\log_c a}$$

$$3 \quad T_n = a + (n-1)d$$

$$4 \quad T_n = ar^{n-1}$$

$$5 \quad S_n = \frac{n}{2} [2a + (n-1)d]$$

$$6 \quad S_n = \frac{a(r^n - 1)}{r - 1} = \frac{a(1 - r^n)}{1 - r}, r \neq 1$$

$$7 \quad Z = \frac{X - \mu}{\sigma}$$

$$8 \quad P(X=r) = {}^n C_r p^r q^{n-r}, p+q=1$$

$$9 \quad {}^n P_r = \frac{n!}{(n-r)!}$$

$$10 \quad {}^n C_r = \frac{n!}{(n-r)!r!}$$

$$11 \quad I = \frac{Q_1}{Q_0} \times 100$$

$$12 \quad \bar{I} = \frac{\sum W_i I_i}{\sum W_i}$$

$$13 \quad \sin^2 A + \cos^2 A = 1$$

$$\sin^2 A + \cos^2 A = 1$$

$$14 \quad \operatorname{sek}^2 A = 1 + \tan^2 A$$

$$\operatorname{sec}^2 A = 1 + \tan^2 A$$

$$15 \quad \operatorname{kosek}^2 A = 1 + \operatorname{kot}^2 A$$

$$\operatorname{cosec}^2 A = 1 + \operatorname{cot}^2 A$$

$$16 \quad \sin(A \pm B) = \sin A \cos B \pm \cos A \sin B$$

$$\sin(A \pm B) = \sin A \cos B \pm \cos A \sin B$$

$$17 \quad \cos(A \pm B) = \cos A \cos B \mp \sin A \sin B$$

$$\cos(A \pm B) = \cos A \cos B \mp \sin A \sin B$$

$$18 \quad \tan(A \pm B) = \frac{\tan A \pm \tan B}{1 \mp \tan A \tan B}$$

$$19 \quad \sin 2A = 2 \sin A \cos A$$

$$\sin 2A = 2 \sin A \cos A$$

$$20 \quad \cos 2A = \cos^2 A - \sin^2 A$$

$$= 2 \cos^2 A - 1$$

$$= 1 - 2 \sin^2 A$$

$$\cos 2A = \cos^2 A - \sin^2 A$$

$$= 2 \cos^2 A - 1$$

$$= 1 - 2 \sin^2 A$$

$$21 \quad \tan 2A = \frac{2 \tan A}{1 - \tan^2 A}$$

$$22 \quad \frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$23 \quad a^2 = b^2 + c^2 - 2bc \cos A$$

$$a^2 = b^2 + c^2 - 2bc \cos A$$

$$24 \quad \text{Luas segi tiga / Area of triangle}$$

$$= \frac{1}{2} ab \sin C$$

Bahagian A
Section A

[64 markah]

[64 marks]

Jawab **semua** soalan.Answer **all** questions.

1 (a) Diberi $\frac{p^2}{3} \left(\frac{3}{y^2}\right)^p \left(\frac{y}{2}\right)^{p+2} = \frac{q}{y^2}$, cari nilai bagi p dan q .

Given $\frac{p^2}{3} \left(\frac{3}{y^2}\right)^p \left(\frac{y}{2}\right)^{p+2} = \frac{q}{y^2}$, find the values of p and q .

[4 markah]

[4 marks]

(b) Diberi bahawa $\log_x 3 = p$, $\log_y 2 = q$ dan $\log_z 5 = r$, cari nilai bagi ungkapan $(x^p)(y^{2q}) - z^r$.

It is given that $\log_x 3 = p$, $\log_y 2 = q$ and $\log_z 5 = r$, find the value of the expression $(x^p)(y^{2q}) - z^r$.

[3 markah]

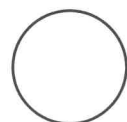
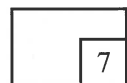
[3 marks]

Jawapan / Answer :

(a)

(b)

1



Untuk
Kegunaan
Pemeriksa

4

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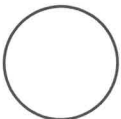
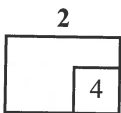
2 Selesaikan persamaan serentak $p = \frac{3}{4} - \frac{k}{2}$ dan $2k^2 - 10k = -5p + 7$.

Solve the simultaneous equations $p = \frac{3}{4} - \frac{k}{2}$ and $2k^2 - 10k = -5p + 7$.

[4 markah]

[4 marks]

Jawapan / Answer :



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- 3 Jaslene mendepositkan RM5 000 ke dalam bank pada 1 Januari 2014. Bank akan membayar 3.5% faedah tahunan kepada deposit tersebut. Jaslene tidak membuat sebarang deposit dan pengeluaran selepas deposit awal.

Jaslene deposited RM5 000 into a bank on 1 January 2014. The bank will pay 3.5% of annual interest to the deposit. Jaslene did not make any deposit and withdrawal after the initial deposit.

Kira

Calculate

- (a) jumlah deposit dalam akaunnya pada 1 Januari 2023,
the total deposit in her account on 1 January 2023,

[2 markah]
[2 marks]

- (b) nilai minimum n sehingga jumlah deposit dalam akaunnya pada tahun ke- n akan melebihi RM7 000.
the minimum value of n such that the total deposit in her account in the n^{th} year will exceed RM7 000.

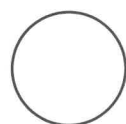
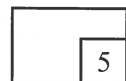
[3 markah]
[3 marks]

Jawapan / Answer :

(a)

(b)

3



- 4 (a) Buktikan bahawa $\sin(x + 45^\circ) \sin(x - 45^\circ) = -\frac{1}{2} \cos 2x$.
Prove that $\sin(x + 45^\circ) \sin(x - 45^\circ) = -\frac{1}{2} \cos 2x$.

[3 markah]

[3 marks]

- (b) Diberi $\cos 2x = \frac{12}{13}$ dengan keadaan $90^\circ \leq x \leq 180^\circ$, tanpa menggunakan kalkulator, cari nilai $\tan x$.

Given $\cos 2x = \frac{12}{13}$ where $90^\circ \leq x \leq 180^\circ$, without using the calculator, find the value of $\tan x$.

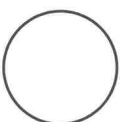
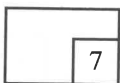
[4 markah]

[4 marks]

Jawapan / Answer :

(a)

(b)



- 5 Persamaan lokus bagi titik bergerak R diberi oleh $x^2 + y^2 + 3x - 3y - 8 = 0$.
Tunjukkan bahawa

*The equation of locus of a moving point R is given by $x^2 + y^2 + 3x - 3y - 8 = 0$.
Show that*

- (a) lokus R bersilang dengan paksi- x pada dua titik berbeza,
the locus R intersects the x -axis at two different points,

[3 markah]

[3 marks]

- (b) garis lurus $y = x - 2$ ialah tangen kepada lokus R .
the straight line $y = x - 2$ is a tangent to the locus R .

[4 markah]

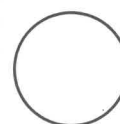
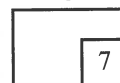
[4 marks]

Jawapan / Answer :

(a)

(b)

5



- 6 (a) Fungsi songsangan f^{-1} ditakrifkan oleh $f^{-1} : x \rightarrow \frac{3}{x-3}$, $x \neq p$.

The inverse function f^{-1} is defined by $f^{-1} : x \rightarrow \frac{3}{x-3}$, $x \neq p$.

Cari

Find

- (i) nilai p ,
the value of p ,
- (ii) $f(x)$.

[3 markah]

[3 marks]

- (b) Diberi bahawa $h : x \rightarrow 4x + a$ dan $h^{-1} : x \rightarrow 2bx + \frac{5}{8}$.
Cari nilai a dan nilai b .

*Given that $h : x \rightarrow 4x + a$ and $h^{-1} : x \rightarrow 2bx + \frac{5}{8}$.
Find the value of a and of b .*

[3 markah]

[3 marks]

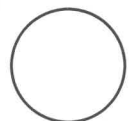
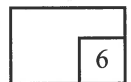
Jawapan / Answer :

(a) (i)

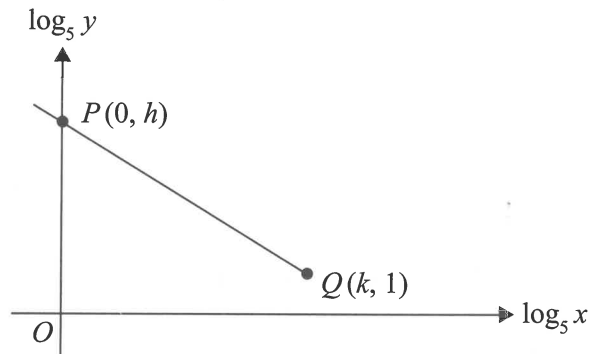
(ii)

(b)

6



- 7 Pemboleh ubah x dan y dihubungkan oleh persamaan $y = \frac{625}{x}$. Rajah 1 menunjukkan graf garis lurus yang diperoleh dengan memplot $\log_5 y$ melawan $\log_5 x$.
The variables x and y are related by equation $y = \frac{625}{x}$. Diagram 1 shows a straight line graph obtained by plotting $\log_5 y$ against $\log_5 x$.



Rajah 1
Diagram 1

- (a) Ungkapkan persamaan $y = \frac{625}{x}$ dalam bentuk linear yang digunakan untuk memperoleh graf garis lurus seperti yang ditunjukkan dalam Rajah 1.

Express the equation $y = \frac{625}{x}$ in the linear form used to obtain the straight line graph as shown in Diagram 1.

[1 markah]

[1 mark]

- (b) Cari nilai h dan nilai k .

Find the value of h and of k .

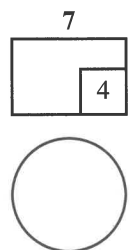
[3 markah]

[3 marks]

Jawapan / Answer :

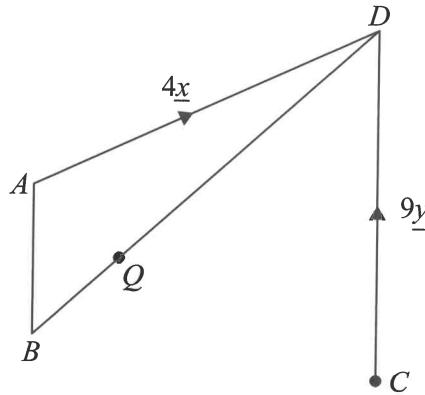
(a)

(b)



- 8 Rajah 2 menunjukkan dua garis lurus AB dan DC yang selari. Diberi bahawa $\overrightarrow{AD} = 4\underline{x}$, $\overrightarrow{CD} = 9\underline{y}$, $AB = \frac{1}{3} DC$ dan BQD adalah garis lurus dengan keadaan $BQ : BD = 1 : 4$.

Diagram 2 shows two parallel lines AB and DC . It is given that $\overrightarrow{AD} = 4\underline{x}$, $\overrightarrow{CD} = 9\underline{y}$, $AB = \frac{1}{3} DC$ and BQD is a straight line such that $BQ : BD = 1 : 4$.



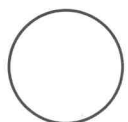
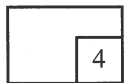
Rajah 2
Diagram 2

Tunjukkan bahawa titik-titik A , Q dan C adalah segaris.
Show that the points A , Q and C are collinear.

[4 markah]
[4 marks]

Jawapan / Answer :

8



- 9 Sepotong piza dipotong daripada piza bersaiz besar dengan jejari 17 cm seperti yang ditunjukkan dalam Rajah 3.

A slice of pizza was cut out of a large sized pizza with radius 17 cm as shown in the Diagram 3.



Rajah 3
Diagram 3

Diberi luas sepotong piza ialah 140 cm^2 , cari
Given the area of the pizza slice is 140 cm^2 , find

- (a) sudut yang dicangkum dalam sepotong piza, dalam radian,
the angle subtended in the pizza slice, in radians,

[2 markah]
[2 marks]

- (b) perimeter bagi piza yang tertinggal, dalam cm.
the perimeter of the remaining pizza, in cm.

[3 markah]
[3 marks]

Gunakan $\pi = 3.142$.

Use $\pi = 3.142$.

Jawapan / Answer :

(a)

(b)

9

5

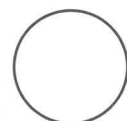
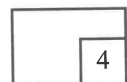
- 10 (a) Diberi bahawa $y = 4x^2 - 15x + 3$, cari julat nilai x apabila $2x + y > 0$.
 Given that $y = 4x^2 - 15x + 3$, find the range of values of x when $2x + y > 0$.
 [2 markah]
 [2 marks]
- (b) Persamaan kuadratik $2px^2 - 2qx + 6 = 0$, dengan keadaan p dan q ialah pemalar, mempunyai dua punca yang sama.
 Ungkapkan q dalam sebutan p .
 The quadratic equation $2px^2 - 2qx + 6 = 0$, where p and q are constants, has two equal roots.
 Express q in terms of p .
 [2 markah]
 [2 marks]

Jawapan / Answer :

(a)

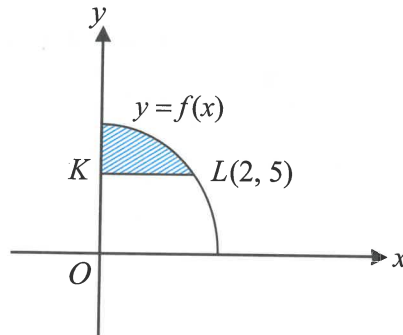
(b)

10



- 11 Rajah 4 menunjukkan sebahagian daripada lengkung $y = f(x)$, yang melalui $L(2, 5)$.
Garis lurus KL adalah selari dengan paksi- x .

Diagram 4 shows part of the curve $y = f(x)$, which passes through $L(2, 5)$. The straight line KL is parallel to the x -axis.



Rajah 4
Diagram 4

Lengkung itu mempunyai fungsi kecerunan $-2x$.

The curves has a gradient function of $-2x$.

Cari

Find

- (a) persamaan lengkung itu,
the equation of the curve,

[3 markah]

[3 marks]

- (b) luas rantau berlorek.
the area of the shaded region.

[3 markah]

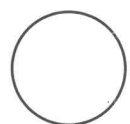
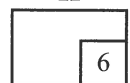
[3 marks]

Jawapan / Answer :

- (a)

(b)

11



- 12 Kebarangkalian seorang murid berbasikal ke sekolah ialah p . Suatu sampel 6 orang murid dipilih secara rawak.

The probability of a student cycling to school is p . A sample of 6 students is selected at random.

- (a) Jika kebarangkalian bagi kesemua 6 orang murid itu berbasikal ke sekolah ialah 0.0248, cari nilai p .

If the probability of all the 6 students cycling to school is 0.0248, find the value of p .

[2 markah]

[2 marks]

- (b) Cari kebarangkalian bahawa sekurang-kurangnya 2 orang murid berbasikal ke sekolah.

Find the probability that at least 2 students cycle to school.

[3 markah]

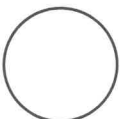
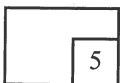
[3 marks]

Jawapan / Answer :

(a)

(b)

12



HALAMAN KOSONG
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Bahagian B
Section B

[16 markah]
[16 marks]

Jawab mana-mana **dua** soalan daripada bahagian ini.
Answer any two questions from this section.

- 13 (a) Rajah 5 menunjukkan tujuh keping kad huruf.
Diagram 5 shows seven pieces of letter cards.



Rajah 5
Diagram 5

Lima keping kad dipilih secara rawak untuk membentuk satu kod. Cari bilangan cara untuk menyusun semua huruf itu dalam sebaris jika

Five pieces of cards are chosen at random to form a code. Find the number of ways to arrange all the letters in a row if

- (i) semua huruf vokal mesti bersebelahan,
all the vowels must be next to each other,
- (ii) sekurang-kurangnya 3 huruf konsonan disusun bersebelahan.
at least 3 consonant letters are arranged side by side.

[5 markah]

[5 marks]

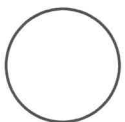
- (b) Tentukan nilai n bagi ${}^{n+1}P_4 = 4 {}^n P_2$.
Determine the value of n for ${}^{n+1}P_4 = 4 {}^n P_2$.

[3 markah]

[3 marks]

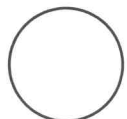
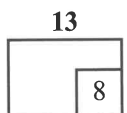
Jawapan / Answer :

- (a) (i)



(a) (ii)

(b)



14 (a) Diberi bahawa $x = 2t^2 - 4$ dan $\frac{dy}{dt} = 4t^3$.

It is given that $x = 2t^2 - 4$ and $\frac{dy}{dt} = 4t^3$.

Cari

Find

(i) $\frac{dx}{dt}$,

(ii) $\frac{dy}{dx}$, dalam sebutan x .

$\frac{dy}{dx}$, *in terms of x .*

[3 markah]

[3 marks]

(b) Zainal mempunyai sekeping zink berbentuk segi empat tepat dengan perimeter 25 cm. Dia ingin menggunakan kepingan zink itu untuk membina sebuah silinder yang terbuka pada kedua-dua hujung.

Cari panjang dan lebar, dalam cm, kepingan zink itu supaya isi padu silinder yang dibentuk ialah maksimum.

Zainal has a rectangular piece of zinc with a perimeter of 25 cm. He wants to use that piece of zinc to build an open cylinder at both ends.

Find the length and the width, in cm, of the piece of zinc that makes the volume of the cylinder is maximum.

[5 markah]

[5 marks]

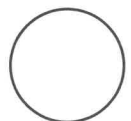
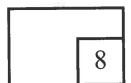
Jawapan / Answer :

(a) (i)

(ii)

(b)

14



- 15 (a) Diberi $ax^2 + bx + c = 0$. Terbitkan rumus kuadratik dengan menggunakan kaedah penyempurnaan kuasa dua.

Given $ax^2 + bx + c = 0$. Derive the quadratic formula by using completing the square method.

[5 markah]

[5 marks]

- (b) Dengan menggunakan rumus kuadratik yang diterbitkan daripada 15(a), tentukan punca-punca bagi persamaan kuadratik $5x^2 - 6x + 9 = 0$.

Berikan jawapan anda dalam sebutan nombor khayalan, i dengan $i = \sqrt{-1}$.

By using the quadratic formula derived from 15(a), determine the roots of the quadratic equation $5x^2 - 6x + 9 = 0$.

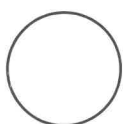
Give your answer in terms of imaginary number, i with $i = \sqrt{-1}$.

[3 markah]

[3 marks]

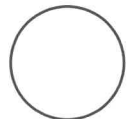
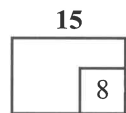
Jawapan / Answer :

(a)



(b)

KERTAS PEPERIKSAAN TAMAT
END OF QUESTION PAPER



KEBARANGKALIAN HUJUNG ATAS $Q(z)$ BAGI TABURAN NORMAL $N(0, 1)$
THE UPPER TAIL PROBABILITY $Q(z)$ FOR THE NORMAL DISTRIBUTION $N(0, 1)$

z										Minus / Tolak									
	0	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9
0.0	0.5000	0.4960	0.4920	0.4880	0.4840	0.4801	0.4761	0.4721	0.4681	0.4641	4	8	12	16	20	24	28	32	36
0.1	0.4602	0.4562	0.4522	0.4483	0.4443	0.4404	0.4364	0.4325	0.4286	0.4247	4	8	12	16	20	24	28	32	36
0.2	0.4207	0.4168	0.4129	0.4090	0.4052	0.4013	0.3974	0.3936	0.3897	0.3859	4	8	12	15	19	23	27	31	35
0.3	0.3821	0.3783	0.3745	0.3707	0.3669	0.3632	0.3594	0.3557	0.3520	0.3483	4	7	11	15	19	22	26	30	34
0.4	0.3446	0.3409	0.3372	0.3336	0.3300	0.3264	0.3228	0.3192	0.3156	0.3121	4	7	11	15	18	22	25	29	32
0.5	0.3085	0.3050	0.3015	0.2981	0.2946	0.2912	0.2877	0.2843	0.2810	0.2776	3	7	10	14	17	20	24	27	31
0.6	0.2743	0.2709	0.2676	0.2643	0.2611	0.2578	0.2546	0.2514	0.2483	0.2451	3	7	10	13	16	19	23	26	29
0.7	0.2420	0.2389	0.2358	0.2327	0.2296	0.2266	0.2236	0.2206	0.2177	0.2148	3	6	9	12	15	18	21	24	27
0.8	0.2119	0.2090	0.2061	0.2033	0.2005	0.1977	0.1949	0.1922	0.1894	0.1867	3	5	8	11	14	16	19	22	25
0.9	0.1841	0.1814	0.1788	0.1762	0.1736	0.1711	0.1685	0.1660	0.1635	0.1611	3	5	8	10	13	15	18	20	23
1.0	0.1587	0.1562	0.1539	0.1515	0.1492	0.1469	0.1446	0.1423	0.1401	0.1379	2	5	7	9	12	14	16	19	21
1.1	0.1357	0.1335	0.1314	0.1292	0.1271	0.1251	0.1230	0.1210	0.1190	0.1170	2	4	6	8	10	12	14	16	18
1.2	0.1151	0.1131	0.1112	0.1093	0.1075	0.1056	0.1038	0.1020	0.1003	0.0985	2	4	6	7	9	11	13	15	17
1.3	0.0968	0.0951	0.0934	0.0918	0.0901	0.0885	0.0869	0.0853	0.0838	0.0823	2	3	5	6	8	10	11	13	14
1.4	0.0808	0.0793	0.0778	0.0764	0.0749	0.0735	0.0721	0.0708	0.0694	0.0681	1	3	4	6	7	8	10	11	13
1.5	0.0668	0.0655	0.0643	0.0630	0.0618	0.0606	0.0594	0.0582	0.0571	0.0559	1	2	4	5	6	7	8	10	11
1.6	0.0548	0.0537	0.0526	0.0516	0.0505	0.0495	0.0485	0.0475	0.0465	0.0455	1	2	3	4	5	6	7	8	9
1.7	0.0446	0.0436	0.0427	0.0418	0.0409	0.0401	0.0392	0.0384	0.0375	0.0367	1	2	3	4	4	5	6	7	8
1.8	0.0359	0.0351	0.0344	0.0336	0.0329	0.0322	0.0314	0.0307	0.0301	0.0294	1	1	2	3	4	4	5	6	6
1.9	0.0287	0.0281	0.0274	0.0268	0.0262	0.0256	0.0250	0.0244	0.0239	0.0233	1	1	2	2	3	4	4	5	5
2.0	0.0228	0.0222	0.0217	0.0212	0.0207	0.0202	0.0197	0.0192	0.0188	0.0183	0	1	1	2	2	3	3	4	4
2.1	0.0179	0.0174	0.0170	0.0166	0.0162	0.0158	0.0154	0.0150	0.0146	0.0143	0	1	1	2	2	2	3	3	4
2.2	0.0139	0.0136	0.0132	0.0129	0.0125	0.0122	0.0119	0.0116	0.0113	0.0110	0	1	1	1	2	2	2	3	3
2.3	0.0107	0.0104	0.0102								0	1	1	1	1	2	2	2	2
			0.00990								3	5	8	10	13	15	18	20	23
				0.00964							2	5	7	9	12	14	16	16	21
					0.00939						2	4	6	8	11	13	15	17	19
						0.00914					2	4	6	7	9	11	13	15	17
2.4	0.00820	0.00798	0.00776	0.00755	0.00734						2	3	5	6	8	9	11	12	14
						0.00714					1	2	3	4	5	6	7	8	9
							0.00695				1	2	3	4	5	6	7	8	9
								0.00676			1	2	3	4	5	6	7	8	9
									0.00657		1	2	3	4	5	6	7	8	9
										0.00639	1	2	3	4	5	6	7	8	9
2.5	0.00621	0.00604	0.00587	0.00570	0.00554	0.00539	0.00523	0.00508	0.00494	0.00480	2	3	5	6	8	9	11	12	14
2.6	0.00466	0.00453	0.00440	0.00427	0.00415	0.00402	0.00391	0.00379	0.00368	0.00357	1	2	3	4	5	6	7	9	10
2.7	0.00347	0.00336	0.00326	0.00317	0.00307	0.00298	0.00289	0.00280	0.00272	0.00264	1	2	3	4	5	6	7	8	9
2.8	0.00256	0.00248	0.00240	0.00233	0.00226	0.00219	0.00212	0.00205	0.00199	0.00193	1	1	2	3	4	4	5	6	6
2.9	0.00187	0.00181	0.00175	0.00169	0.00164	0.00159	0.00154	0.00149	0.00144	0.00139	0	1	1	2	2	3	3	4	4
3.0	0.00135	0.00131	0.00126	0.00122	0.00118	0.00114	0.00111	0.00107	0.00104	0.00100	0	1	1	2	2	2	3	3	4

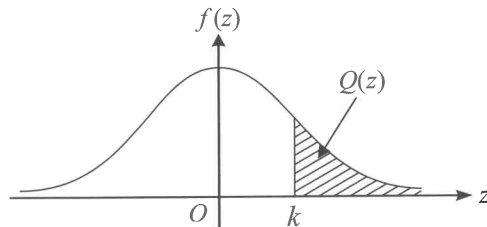
Bagi z negatif guna hubungan:

For negative z use relation:

$$Q(z) = 1 - Q(-z) = P(-z)$$

$$f(z) = \frac{1}{\sqrt{2\pi}} \exp\left(-\frac{1}{2}z^2\right)$$

$$Q(z) = \int_k^{\infty} f(z) dz$$



Contoh / Example:

Jika $X \sim N(0, 1)$, maka

If $X \sim N(0, 1)$, then

$$P(X > k) = Q(k)$$

$$P(X > 2.1) = Q(2.1) = 0.0179$$