

NAMA

KELAS

3472/1

Matematik

Tambahan

Kertas 1

Julai / Ogos

2026

2 jam



**MAJLIS PENGETUA SEKOLAH MALAYSIA
NEGERI SEMBILAN**

**PROGRAM PENINGKATAN AKADEMIK TINGKATAN LIMA
SEKOLAH MENENGAH NEGERI SEMBILAN 2026**

MATEMATIK TAMBAHAN

Kertas 1

Dua jam

**JANGAN BUKA KERTAS SOALAN INI
SEHINGGA DIBERITAHU**

- 1 Tulis nama dan kelas anda pada ruangan yang disediakan.
- 2 Kertas soalan ini adalah dalam dwibahasa.
- 3 Soalan dalam Bahasa Melayu mendahului soalan yang sepadan dalam Bahasa Inggeris.
- 4 Calon dibenarkan menjawab keseluruhan atau sebahagian soalan sama ada dalam Bahasa Inggeris atau Bahasa Melayu.
- 5 Calon dikehendaki membaca maklumat di halaman 28.

Untuk Kegunaan Pemeriksa			
Bahagian	Soalan	Markah Penuh	Markah Diperoleh
A	1	4	
	2	5	
	3	5	
	4	3	
	5	5	
	6	4	
	7	4	
	8	4	
	9	6	
	10	6	
	11	9	
	12	9	
B	13	8	
	14	8	
	15	8	
Jumlah		80	

Kertas soalan ini mengandungi 28 halaman bercetak

[Lihat halaman sebelah

SULIT

RUMUS
FORMULAE

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

$$2 \quad a^m \times a^n = a^{m+n}$$

$$3 \quad a^m \div a^n = a^{m-n}$$

$$4 \quad (a^m)^n = a^{mn}$$

$$5 \quad \log_a mn = \log_a m + \log_a n$$

$$6 \quad \log_a \frac{m}{n} = \log_a m - \log_a n$$

$$7 \quad \log_a m^n = n \log_a m$$

$$8 \quad \log_a b = \frac{\log_c b}{\log_c a}$$

$$9 \quad T_n = a + (n-1)d$$

$$10 \quad S_n = \frac{n}{2} [2a + (n-1)d]$$

$$11 \quad T_n = ar^{n-1}$$

$$12 \quad S_n = \frac{a(r^n - 1)}{r - 1} = \frac{a(1 - r^n)}{1 - r}, \quad r \neq 1$$

$$13 \quad S_\infty = \frac{a}{1-r}, \quad |r| < 1$$

$$14 \quad y = uv, \quad \frac{dy}{dx} = u \frac{dv}{dx} + v \frac{du}{dx}$$

$$15 \quad y = \frac{u}{v}, \quad \frac{dy}{dx} = \frac{v \frac{du}{dx} - u \frac{dv}{dx}}{v^2}$$

$$16 \quad \frac{dy}{dx} = \frac{dy}{du} \times \frac{du}{dx}$$

$$17 \quad \text{Luas di bawah lengkung}$$

Area under a curve

$$= \int_a^b y \, dx \quad \text{atau (or)}$$

$$= \int_a^b x \, dy$$

$$32 \quad \sin 2A = 2 \sin A \cos A$$

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

$$18 \quad \text{Isi padu kisaran}$$

Volume of revolution

$$= \int_a^b \pi y^2 \, dx \quad \text{atau (or)}$$

$$= \int_a^b \pi x^2 \, dy$$

$$19 \quad I = \frac{Q_1}{Q_0} \times 100$$

$$20 \quad \bar{I} = \frac{\sum W_i I_i}{\sum W_i}$$

$$21 \quad {}^n P_r = \frac{n!}{(n-r)!}$$

$$22 \quad {}^n C_r = \frac{n!}{(n-r)!r!}$$

$$23 \quad P(X=r) = {}^n C_r p^r q^{n-r}, \quad p+q=1$$

$$24 \quad \text{Min / Mean, } \mu = np$$

$$25 \quad \sigma = \sqrt{npq}$$

$$26 \quad Z = \frac{X - \mu}{\sigma}$$

$$27 \quad \text{Panjang lengkok, } s = j\theta$$

Arc length, } s = r\theta

$$28 \quad \text{Luas sektor, } L = \frac{1}{2} j^2 \theta$$

$$\text{Area of sector, } A = \frac{1}{2} r^2 \theta$$

$$29 \quad \sin^2 A + \cos^2 A = 1$$

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

$$30 \quad \sec^2 A = 1 + \tan^2 A$$

$$\sec^2 A = 1 + \tan^2 A$$

$$31 \quad \operatorname{cosec}^2 A = 1 + \cot^2 A$$

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

$$\begin{aligned} 33 \quad \cos 2A &= \cos^2 A - \sin^2 A \\ &= 2 \cos^2 A - 1 \\ &= 1 - 2 \sin^2 A \end{aligned}$$

$$\begin{aligned} \cos 2A &= \cos^2 A - \sin^2 A \\ &= 2 \cos^2 A - 1 \\ &= 1 - 2 \sin^2 A \end{aligned}$$

$$34 \quad \tan 2A = \frac{2 \tan A}{1 - \tan^2 A}$$

$$\begin{aligned} 35 \quad \sin (A \pm B) &= \sin A \cos B \pm \cos A \sin B \\ \sin (A \pm B) &= \sin A \cos B \pm \cos A \sin B \end{aligned}$$

$$\begin{aligned} 36 \quad \cos (A \pm B) &= \cos A \cos B \mp \sin A \sin B \\ \cos (A \pm B) &= \cos A \cos B \mp \sin A \sin B \end{aligned}$$

$$37 \quad \tan (A \pm B) = \frac{\tan A \pm \tan B}{1 \mp \tan A \tan B}$$

$$38 \quad \frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\begin{aligned} 39 \quad a^2 &= b^2 + c^2 - 2bc \cos A \\ a^2 &= b^2 + c^2 - 2bc \cos A \end{aligned}$$

$$\begin{aligned} 40 \quad \text{Luas segi tiga / Area of triangle} \\ &= \frac{1}{2} ab \sin C \end{aligned}$$

$$\begin{aligned} 41 \quad \text{Titik yang membahagi suatu tembereng garis} \\ \text{A point dividing a segment of a line} \end{aligned}$$

$$(x, y) = \left(\frac{nx_1 + mx_2}{m+n}, \frac{ny_1 + my_2}{m+n} \right)$$

$$\begin{aligned} 42 \quad \text{Luas segi tiga / Area of triangle} \\ &= \frac{1}{2} |(x_1 y_2 + x_2 y_3 + x_3 y_1) - (x_2 y_1 + x_3 y_2 + x_1 y_3)| \end{aligned}$$

$$43 \quad |\mathbf{r}| = \sqrt{x^2 + y^2}$$

$$44 \quad \hat{\mathbf{r}} = \frac{x\mathbf{i} + y\mathbf{j}}{\sqrt{x^2 + y^2}}$$

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SULIT

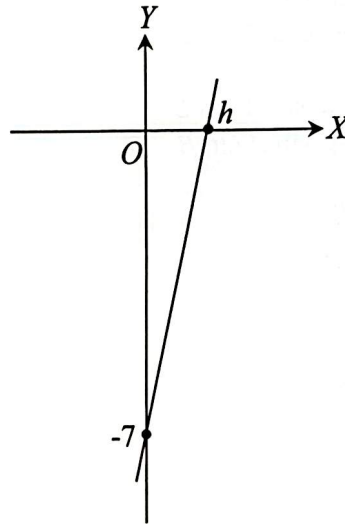
Bahagian A

[64 markah]

Jawab semua soalan.

- 1 Rajah 1 menunjukkan graf garis lurus yang diperoleh apabila $y = -7x^3 + 5$ ditukarkan dalam bentuk linear.

Diagram 1 shows the straight line graph obtained when $y = -7x^3 + 5$ is reduced to linear form.



Rajah 1
Diagram 1

- (a) Ungkapkan X dan Y dalam sebutan x dan / atau y .
Express X and Y in terms of x and / or y .

[2 markah]

[2 marks]

- (b) Cari nilai h .
Find the value of h .

[2 markah]

[2 marks]

Jawapan / Answer:

- 2 Dalam suatu jangjang geometri, diberi nilai sebutan pertama ialah separuh daripada nilai nisbah sepunya.

In a geometry progression, it is given that the value of the first term is half of the value of the common ratio.

Cari

Find

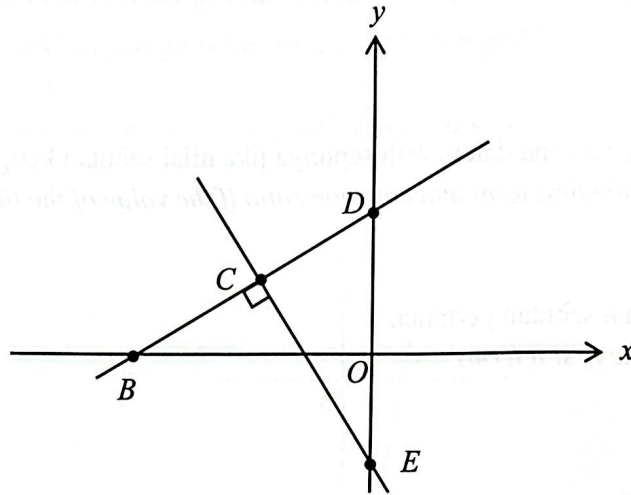
- (a) nilai sebutan pertama dan nisbah sepunya jika nilai sebutan ketiga ialah 1372,
the value of the first term and common ratio if the value of the third term is 1372,
[4 markah]
[4 marks]
- (b) hasil tambah n sebutan pertama.
the sum of the first n terms.
[1 markah]
[1 mark]

Jawapan / Answer:

SULIT

- 3 Rajah 2 menunjukkan garis lurus CE ialah pembahagi dua sama serenjang bagi garis lurus BD .

Diagram 2 shows the straight line CE is the perpendicular bisector of the straight line BD .



Rajah 2
Diagram 2

Diberi persamaan BD ialah $\frac{y}{2} - \frac{x}{4} = 1$. Cari

Given the equation of BD is $\frac{y}{2} - \frac{x}{4} = 1$. Find

- (a) koordinat C ,
the coordinates of C ,
- (b) persamaan garis lurus CE .
the equation of the straight line CE .

[2 markah]

[2 marks]

[3 markah]

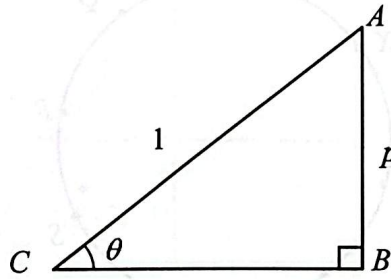
[3 marks]

Jawapan / Answer:

SULIT

3472/1

- 4 Rajah 3 menunjukkan sebuah segitiga ABC .
 Diagram 3 shows a triangle ABC .



Rajah 3
 Diagram 3

Ungkapkan dalam sebutan p bagi
 Express in terms of p for

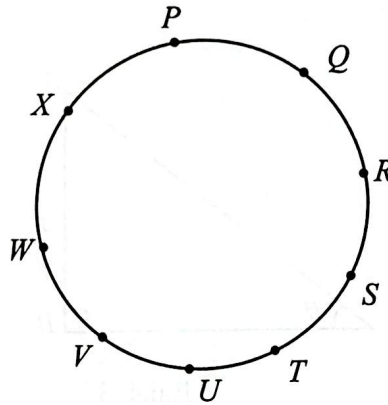
- (a) $\sin^2 \theta$, [1 markah]
 [1 mark]
 (b) $\sec \theta$. [2 markah]
 [2 marks]

Jawapan / Answer:

[Lihat halaman sebelah
 SULIT]

SULIT

- 5 Rajah 4 menunjukkan 9 titik di dalam sebuah bulatan.
Diagram 4 shows 9 points in a circle.



Rajah 4
 Diagram 4

- (a) Cari bilangan segi tiga yang dapat dibentuk dalam bulatan jika titik-titik tersebut menjadi bucu bagi segi tiga.
Find the number of triangles that can be formed inside the circle if the points form the vertices of triangle.

[2 markah]

[2 marks]

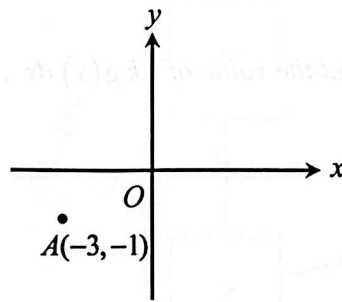
- (b) Cari bilangan cara menyusun huruf-huruf dalam bulatan jika huruf *U* dan *V* berasingan.
*Find the number of ways to arrange the letters in a circle if the letter *U* and *V* separately.*

[3 markah]

[3 marks]

Jawapan / Answer:

- 6 Rajah 5 menunjukkan titik A pada suatu satah Cartes.
Diagram 5 shows the point A on the Cartesian plane.



Rajah 5
 Diagram 5

- (a) Nyatakan $\overline{OA}$ dalam bentuk $\begin{pmatrix} x \\ y \end{pmatrix}$.

State $\overline{OA}$ in the form of $\begin{pmatrix} x \\ y \end{pmatrix}$.

[1 markah]

[1 mark]

- (b) Titik A dipantulkan pada paksi- x ke titik A' . Diberi $\overline{OB} = 3\hat{i} + 4\hat{j}$, cari vektor unit dalam arah $\overline{A'B}$ dalam sebutan $\hat{i}$ dan $\hat{j}$.

Point A is reflected about the x -axis to point A' . It is given that $\overline{OB} = 3\hat{i} + 4\hat{j}$, find the unit vector in the direction of $\overline{A'B}$ in terms of $\hat{i}$ and $\hat{j}$.

[3 markah]

[3 marks]

Jawapan / Answer:

SULIT

3472/1

- 7 (a) Diberi $\int_1^3 g(x) dx = 9$, cari nilai $\int_3^1 k g(x) dx$, dalam sebutan k , dengan keadaan k adalah pemalar.

Given $\int_1^3 g(x) dx = 9$, find the value of $\int_3^1 k g(x) dx$, in terms of k , such that k is a constant.

[1 markah]

[1 mark]

- (b) Suatu lengkung mempunyai fungsi kecerunan, $\frac{dy}{dx} = \frac{5}{(2x-3)^2}$ dan melalui titik $P(1, 4)$.

A curve has a gradient function, $\frac{dy}{dx} = \frac{5}{(2x-3)^2}$ and passes through point $P(1, 4)$.

Cari persamaan lengkung itu.

Find the equation of the curve.

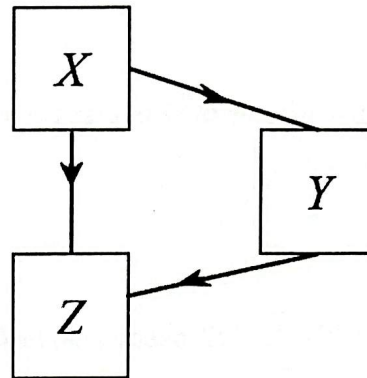
[3 markah]

[3 marks]

Jawapan / Answer:

- 8 Rajah 6 menunjukkan hubungan antara set X , set Y dan set Z .

Diagram 6 shows the relationship between set X , set Y and set Z .



Rajah 6
Diagram 6

Diberi bahawa set X dipetakan kepada set Y oleh fungsi $\frac{2x-1}{3}$ dan dipetakan kepada set Z oleh $gf(x) = \frac{5x+7}{2}$.

Given that set X is mapped to set Y by a function $\frac{2x-1}{3}$ and mapped to set Z by $gf(x) = \frac{5x+7}{2}$.

- (a) Tulis fungsi yang memetakan set X kepada set Y dengan menggunakan tatatanda fungsi.

Write the function that maps set X to set Y using function notation.

[1 markah]

[1 mark]

- (b) Cari fungsi yang memetakan set Y kepada set Z .

Find the function that maps set Y to set Z .

[3 markah]

[3 marks]

Jawapan / Answer:

Jawapan / Answer:



- 9 (a) Diberi $\log_{\frac{1}{3}}(\log_c d) = 3$ boleh diungkapkan dalam sebutan $d = c^{\frac{1}{y}}$. Nyatakan nilai y .

Given $\log_{\frac{1}{3}}(\log_c d) = 3$ can be expressed in form of $d = c^{\frac{1}{y}}$. State the value of y .

[2 markah]

[2 marks]

- (b) Diberi x ialah integer, selesaikan persamaan $20\sqrt{2^x} - 2^{x+2} = 24$.

Given that x is an integer, solve the equation $20\sqrt{2^x} - 2^{x+2} = 24$.

[4 markah]

[4 marks]

Jawapan / Answer:

SULIT

- 10 Pemboleh ubah rawak, X , mempunyai suatu taburan binomial dengan 3 cubaan dengan keadaan kebarangkalian kejayaan dalam setiap cubaan ialah p dan kebarangkalian kegagalan dalam setiap cubaan ialah q . Jadual 1 menunjukkan sebahagian daripada taburan kebarangkalian bagi X .

A random variable, X , follows a binomial distribution with 3 trials such that the probability of success in each trial is p and the probability of failure in each trial is q . Table 1 shows part of the probability distribution of X .

X	0	1	2	3
$P(X = x)$	$\frac{1}{64}$	m	n	$\frac{27}{64}$

Jadual 1

Table 1

- (a) Nyatakan nilai $m + n$.
State the value of $m + n$.

[1 markah]

[1 mark]

- (b) Dalam sebuah pusat latihan memandu, didapati bahawa 75% daripada calon ujian memandu praktikal lulus dalam cubaan pertama mereka. Satu sampel yang terdiri daripada n calon ujian memandu yang lulus telah dipilih secara rawak. Diberi bahawa kebarangkalian semua calon memandu lulus ialah 0.3164. Cari

In a driving training centre, it was found that 75% of the practical driving test candidates passed on their first attempt. A sample of n passing candidates driving test was chosen at random. It is given that the probability of all candidate's pass is 0.3164. Find

- (i) nilai n ,
the value of n ,
(ii) kebarangkalian sekurang-kurangnya seorang calon lulus ujian memandu.
the probability that at least one candidate passes the driving test.

[5 markah]

[5 marks]

Jawapan / Answer:

Jawapan / Answer:

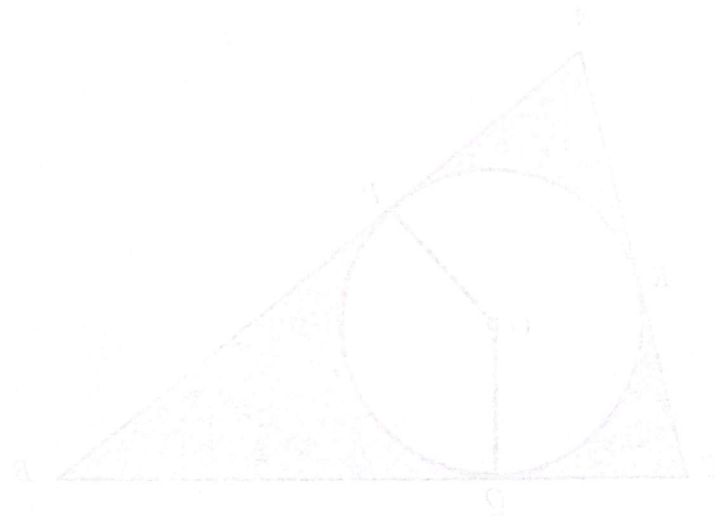


Diagram 7

Given that $AB = 50$ m, $BC = 30$ m, $AC = 40$ m, $CP = 25$ m, $CQ = 15$ m, $CR = 15$ m.

(Given $\pi = 3.142$)

Hitung

Calculate

(a) panjang lilitan minor kolum PQ, dalam meter.
the length of the minor arc of the circle PQ, in meters.

13.00 m

13.00 m

(b) panjang lilitan minor kolum PQ, dalam meter.
the length of the minor arc of the circle PQ, in meters.

13.00 m

(c) luas kawasan dalam segi tiga yang terdudukkan oleh lilitan minor PQ, dalam meter.
the area of the minor sector that is not covered by the circle PQ, in meters.

13.00 m

13.00 m

13.00 m

13.00 m

13.00 m

13.00 m

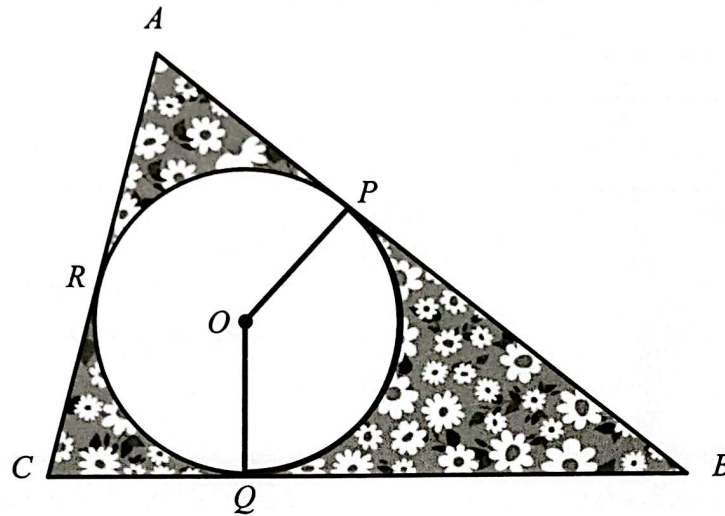
13.00 m

13.00 m

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SULIT

- 11 Rajah 7 menunjukkan sebuah kolam bulat berpusat di O berada di dalam taman bunga berbentuk segitiga ABC . Laluan pejalan kaki di sepanjang sisi AB , BC dan AC dibina supaya setiap laluan itu menyentuh kolam pada titik P , Q dan R .

Diagram 7 shows circular pond with centre O located in a triangle shaped flower garden ABC . Footpaths along the sides AB , BC and AC are built such that each path touches the pond at points P , Q and R .



Rajah 7
Diagram 7

Diberi bahawa $AB = 20$ m, $BC = 21$ m, $OP = 5$ m dan $PB = QB = 12$ m.
Given that $AB = 20$ m, $BC = 21$ m, $OP = 5$ m and $PB = QB = 12$ m.

[Gunakan $\pi = 3.142$]

[Use $\pi = 3.142$]

Hitung

Calculate

- (a) panjang lengkok minor kolam PQ , dalam meter.
the length of the minor arc of the pond PQ , in metres.
[3 markah]
[3 marks]
- (b) jumlah perimeter kawasan taman bunga yang dibatasi oleh laluan pejalan kaki AP , CQ , CA dan lengkok major kolam PQ , dalam meter.
the total perimeter of the flower garden region bounded by the footpaths AP , CQ , CA and the major arc PQ , in meter.
[3 markah]
[3 marks]
- (c) luas kawasan taman bunga yang tidak diliputi oleh kolam, dalam m^2 .
the area of the flower garden that is not covered by the pond, in m^2 .
[3 markah]
[3 marks]

Jawapan / Answer:

SULIT**3472/1**

- 12 (a) Dengan menggunakan kaedah penggantian, tentukan pembezaan peringkat pertama bagi

By using the substitution method, determine the first derivative of

$$y = 2(3x - 4)^3$$

[3 markah]

[3 marks]

- (b) Seterusnya, cari

Hence, find

- (i) nilai $\frac{dy}{dx}$ apabila $x = 1.20$ cm.

the value of $\frac{dy}{dx}$ when $x = 1.20$ cm.

- (ii) nilai hampir bagi $2(3(1.19) - 4)^3$ dan peratus perubahannya.

approximate value for $2(3(1.19) - 4)^3$ and its percentage change.

[6 markah]

[6 marks]

Jawapan / Answer:

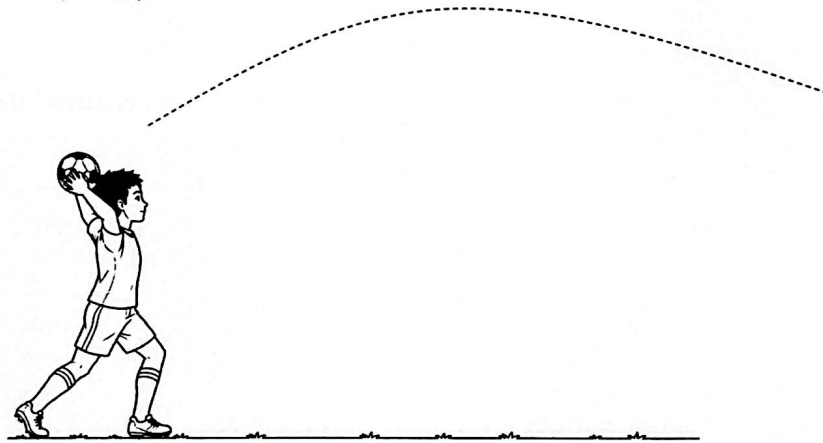
Bahagian B

[16 markah]

Jawab mana-mana dua soalan daripada bahagian ini.

- 13 Dalam satu perlawanan bola sepak, seorang pemain melakukan lontaran ke dalam padang selepas bola keluar oleh pihak lawan. Rajah 8 menunjukkan ketinggian bola, h meter, selepas t saat diberi oleh fungsi $h(t) = -\frac{1}{3}t^2 + 2t + 2$. Ketinggian maksimum yang dicapai oleh bola tersebut ialah pada $\left(3p, \frac{5}{p}\right)$.

In a football match, a player performs a throw-in after the ball goes out of play by the opposing team. Diagram 8 shows the height of the ball, h metres, after t seconds is given by a function $h(t) = -\frac{1}{3}t^2 + 2t + 2$. The maximum height reached by the ball occurs at $\left(3p, \frac{5}{p}\right)$.



Rajah 8
Diagram 8

- (a) Dengan menggunakan kaedah penyempurnaan kuasa dua, ungkapkan $h(t)$ dalam bentuk verteks. Seterusnya, cari nilai p .
By using the method of completing the square, express $h(t)$ in vertex form. Hence, find the value of p .
- (b) Lakarkan graf $h(t)$ untuk $0 \leq t \leq 6$.
Sketch the graph of $h(t)$ for $0 \leq t \leq 6$.
- (c) Pada saat ke berapakah bola cecah ke tanah semula.
At what time does the ball hit the ground again.

[4 markah]

[4 marks]

[2 markah]

[2 marks]

[2 markah]

[2 marks]

SULIT**3472/1****Jawapan / Answer:**

$$\left[\frac{1}{2} \ln \left(\frac{1+x}{1-x} \right) \right]_0^1 = \frac{1}{2} \ln 2$$

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SULIT

SULIT

3472/1

- 14 (a) Jika a ialah sebutan pertama dan d ialah beza sepunya bagi suatu jangjang aritmetik, tunjukkan bahawa hasil tambah n sebutan pertama bagi jangjang itu ialah

If a is the first term and d is the common difference of an arithmetic progression, show that the sum of the first n terms of the progression is

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

[3 markah]

[3 marks]

- (b) x , y dan z ialah tiga sebutan pertama dalam suatu jangjang aritmetik di mana x dan z ialah dua nombor gandaan 15 yang berturutan.

x , y and z are the first three terms in an arithmetic progression where x and z are two consecutive multiples of 15.

Cari

Find

- (i) beza sepunya,
common difference,

[2 markah]

[2 marks]

- (ii) nilai x jika $3z = 2(x + y)$.
value of x if $3z = 2(x + y)$.

[3 markah]

[3 marks]

Jawapan / Answer:

SULIT**3472/1****Jawapan / Answer:**

Rajah 9
Diagram 9

Based on triangle ABC, find the value of $\sin A$ and $\cos A$ without using calculator.
 Berdasarkan segitiga ABC, cari nilai $\sin A$ dan $\cos A$ tanpa menggunakan kalkulator.

Jawapan / Answer:

SULIT

3472/1

- 15 (a) (i) Terbitkan rumus sudut berganda $\sin 2\theta = 2 \sin \theta \cos \theta$.
Derive the double angle formula $\sin 2\theta = 2 \sin \theta \cos \theta$.

[2 markah]

[2 marks]

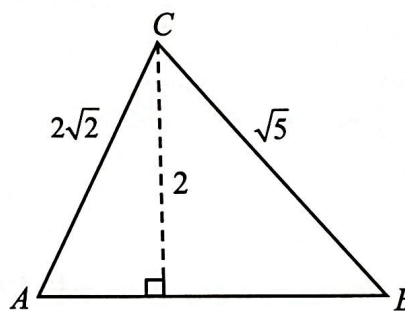
- (ii) Seterusnya, selesaikan persamaan $4 \sin \theta \cos \theta = 1$ untuk $0^\circ \leq \theta \leq 360^\circ$.

Hence, solve the equation $4 \sin \theta \cos \theta = 1$ for $0^\circ \leq \theta \leq 360^\circ$.

[3 markah]

[3 marks]

- (b) Rajah 9 menunjukkan sebuah segitiga ABC .
Diagram 9 shows a triangle ABC .



Rajah 9
 Diagram 9

Berdasarkan segitiga ABC , cari nilai $\tan(A + B)$ tanpa menggunakan kalkulator.
Based on triangle ABC , find the value of $\tan(A + B)$ without using calculator.

[3 markah]

[3 marks]

Jawapan / Answer:

SULIT**3472/1****Jawapan / Answer:**

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SULIT

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	0	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9
											Minus / 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	15	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								0	1	1	1	1	2	2	2	2
				.02990	.02964	.02939	.02914				3	5	8	10	13	15	18	20	23
								.02889	.02866	.02842	2	5	7	9	12	14	16	16	21
2.4	.02820	.02798	.02776	.02755	.02734						2	4	6	8	11	13	15	17	19
					.02714	.02695		.02676	.02657	.02639	2	4	6	7	9	11	13	15	17
2.5	.02621	.02604	.02587	.02570	.02554	.02539	.02523	.02508	.02494	.02480	2	3	5	6	8	9	11	12	14
2.6	.02466	.02453	.02440	.02427	.02415	.02402	.02391	.02379	.02368	.02357	1	2	3	5	6	7	9	9	10
2.7	.02347	.02336	.02326	.02317	.02307	.02298	.02289	.02280	.02272	.02264	1	2	3	4	5	6	7	8	9
2.8	.02256	.02248	.02240	.02233	.02226	.02219	.02212	.02205	.02199	.02193	1	1	2	3	4	4	5	6	6
2.9	.02187	.02181	.02175	.02169	.02164	.02159	.02154	.02149	.02144	.02139	0	1	1	2	2	3	3	4	4
3.0	.02135	.02131	.02126	.02122	.02118	.02114	.02111	.02107	.02104	.02100	0	1	1	2	2	2	3	3	4

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