

**SULIT****2****1449/1**

**MATHEMATICAL FORMULAE**  
**RUMUS MATEMATIK**

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

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

**RELATIONS**  
**PERKAITAN**

- |  |  |
|--|--|
| 1  | 10   |
| $a^m \times a^n = a^{m+n}$   | Pythagoras Theorem<br><i>Teorem Pithagoras</i><br>$c^2 = a^2 + b^2$  |
| 2  |  |
| $a^m \div a^n = a^{m-n}$   |  |
| 3  | 11   |
| $(a^m)^n = a^{mn}$   | $P(A) = \frac{n(A)}{n(S)}$   |
| 4  | 12   |
| $A^{-1} = \frac{1}{ad-bc} \begin{pmatrix} d & -b \\ -c & a \end{pmatrix}$  | $P(A') = 1 - P(A)$   |
| 5  | 13   |
| Distance / <i>jarak</i><br>$= \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$  | $m = \frac{y_2 - y_1}{x_2 - x_1}$  |
| 6  | 14   |
| Midpoint / <i>Titik tengah</i><br>$(x, y) = \left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$   | $m = -\frac{y\text{-intercept}}{x\text{-intercept}}$<br>$m = -\frac{\text{pintasan } y}{\text{pintasan } x}$ |
| 7  |  |
| Average speed = $\frac{\text{distance travelled}}{\text{time taken}}$<br><i>Purata laju = <math>\frac{\text{jarak yang dilalui}}{\text{masa yang diambil}}</math></i>  |  |
| 8  |  |
| Mean = $\frac{\text{sum of data}}{\text{number of data}}$<br><br>$Min = \frac{\text{hasil tambah nilai data}}{\text{bilangan data}}$   |  |
| 9  |  |
| Mean = $\frac{\text{Sum of (classmark} \times \text{frequency)}}{\text{sum of frequencies}}$<br><br>$Min = \frac{\text{hasil tambah (nilai titik tengah kelas} \times \text{kekerapan)}}{\text{hasil tambah kekerapan}}$ |  |

**SULIT****3****1449/1****SHAPES AND SPACE****BENTUK DAN RUANG**

- 1 Area of trapezium =  $\frac{1}{2} \times \text{sum of parallel sides} \times \text{height}$   
*Luas trapezium =  $\frac{1}{2} \times \text{hasil tambah dua sisi selari} \times \text{tinggi}$*
- 2 Circumference of circle =  $\pi d = 2 \pi r$   
*Lilitan bulatan =  $\pi d = 2 \pi j$*
- 3 Area of circle =  $\pi r^2$   
*Luas bulatan =  $\pi j^2$*
- 4 Curved surface area of cylinder =  $2 \pi rh$   
*Luas permukaan melengkung silinder =  $2 \pi jt$*
- 5 Surface area of sphere =  $4 \pi r^2$   
*Luas permukaan sfera =  $4 \pi j^2$*
- 6 Volume of right prism = cross sectional area  $\times$  length  
*Isipadu prisma tegak = luas keratan rentas  $\times$  panjang*
- 7 Volume of cylinder =  $\pi r^2 h$   
*Isipadu silinder =  $\pi j^2 t$*
- 8 Volume of cone =  $\frac{1}{3} \pi r^2 h$   
*Isipadu kon =  $\frac{1}{3} \pi j^2 t$*
- 9 Volume of sphere =  $\frac{4}{3} \pi r^3$   
*Isipadu sfera =  $\frac{4}{3} \pi j^3$*
- 10 Volume of right pyramid =  $\frac{1}{3} \times \text{base area} \times \text{height}$   
*Isipadu pyramid tegak =  $\frac{1}{3} \times \text{luas tapak} \times \text{tinggi}$*
- 11 Sum of interior angles of a polygon  
*Hasil tambah sudut pedalaman polygon*  
 =  $(n - 2) \times 180^\circ$

**[Lihat sebelah  
SULIT**

**SULIT****4****1449/1**

$$12 \quad \frac{\text{arc length}}{\text{circumference of circle}} = \frac{\text{angle subtended at centre}}{360^\circ}$$

$$\frac{\text{panjang lengkung}}{\text{lilitan bulatan}} = \frac{\text{sudut pusat}}{360^\circ}$$

$$13 \quad \frac{\text{area of sector}}{\text{area of circle}} = \frac{\text{angle subtended at centre}}{360^\circ}$$

$$\frac{\text{luas sektor}}{\text{luas bulatan}} = \frac{\text{sudut pusat}}{360^\circ}$$

$$14 \quad \text{Scale factor, } k = \frac{PA'}{PA}$$

$$\text{Factor skala, } k = \frac{PA'}{PA}$$

$$15 \quad \text{Area of image} = k^2 \times \text{area of object}$$

$$\text{Luas imej} = k^2 \times \text{luas objek}$$

**SULIT****5****1449/1***Answer all questions.**Jawab semua soalan.*

- 1 Round off 69919 correct to three significant figures.

*Bundarkan 69919 betul kepada tiga angka bererti.*

- A 700
- B 7000
- C 69900
- D 69920

- 2 Express 0.0196 in standard form.

*Ungkapkan 0.0196 dalam bentuk piawai.*

- A  $1.96 \times 10^{-3}$
- B  $1.96 \times 10^{-2}$
- C  $1.96 \times 10^2$
- D  $1.96 \times 10^3$

3  $\frac{0.0015}{3+2 \times 10^{-1}} =$

- A  $4.6875 \times 10^4$
- B  $2.005 \times 10^{-1}$
- C  $4.6875 \times 10^{-4}$
- D  $3.0 \times 10^{-5}$

- 4 Given that  $x$  is a number in base 2 such that  $31_8 < x < 11110_2$ , the possible value of  $x$  is

*Diberi bahawa  $x$  ialah nombor dalam asas 2 dengan keadaan  $31_8 < x < 11110_2$ , nilai yang mungkin bagi  $x$  ialah*

- A  $10111_2$
- B  $11000_2$
- C  $11011_2$
- D  $11111_2$

**[Lihat sebelah  
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- 5 Express  $3 \times 5^3 + 2$  as a number in base five.

*Ungkapkan  $3 \times 5^3 + 2$  sebagai nombor dalam asas lima.*

- A  $23_5$   
 B  $32_5$   
 C  $302_5$   
 D  $3002_5$

- 6 In Diagram 1,  $ABCD$  is a quadrilateral and  $AB$  is parallel to  $CE$ .

*Dalam Rajah 1,  $ABCD$  ialah sebuah sisiempat dan  $AB$  adalah selari dengan  $CE$ .*

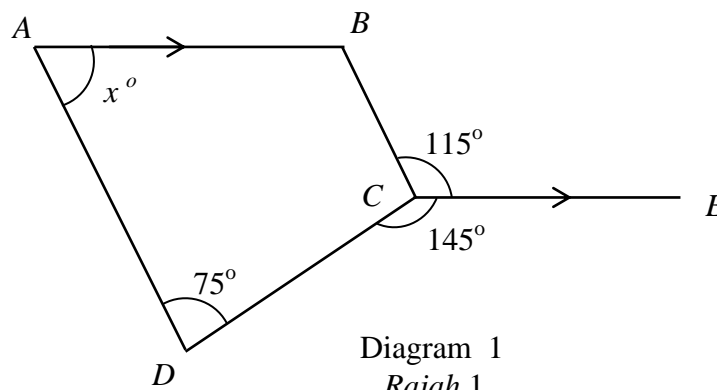


Diagram 1  
Rajah 1

The value of  $x$  is

*Nilai  $x$  ialah*

- A 65  
 B 70  
 C 80  
 D 120

7 In Diagram 2,  $PQRS$  is a rhombus.

*Dalam Rajah 2,  $PQRS$  adalah sebuah rombus.*

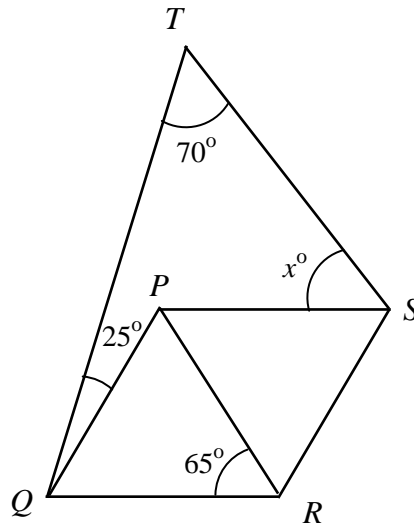


Diagram 2  
Rajah 2

The value of  $x$  is

*Nilai  $x$  ialah*

- A** 15
- B** 20
- C** 25
- D** 35

**[Lihat sebelah  
SULIT**

- 8 In Diagram 3,  $ABC$  and  $CDE$  are tangents to the circle with centre  $O$ , at  $B$  and  $D$  respectively.

*Dalam Rajah 3,  $ABC$  dan  $CDE$  adalah tangen untuk bulatan berpusat  $O$ , masing-masing di titik  $B$  dan  $D$ .*

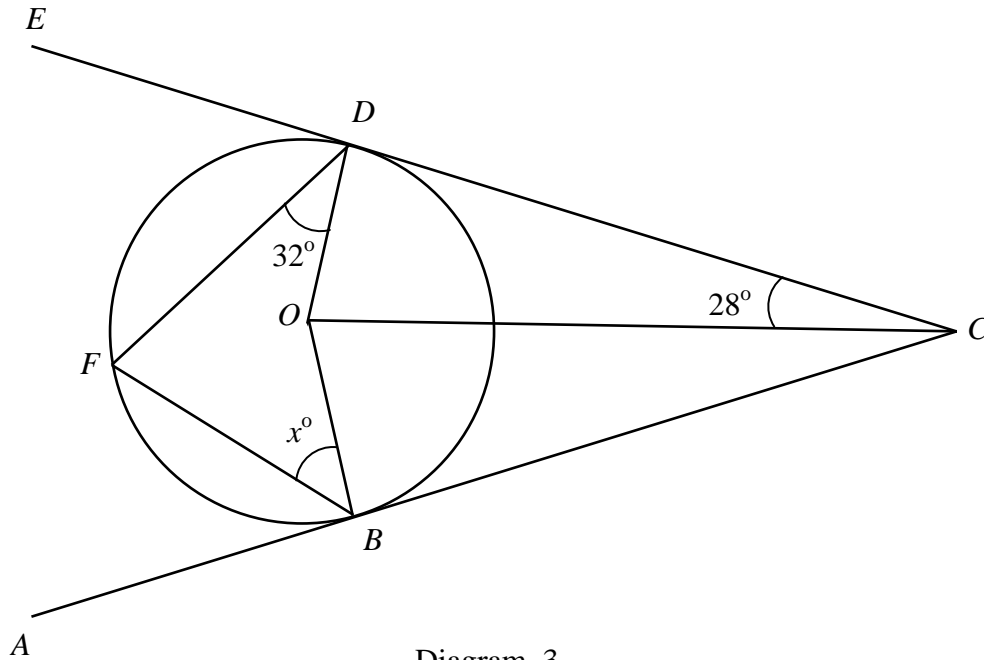


Diagram 3  
Rajah 3

The value of  $x$  is

*Nilai bagi  $x$  ialah*

- A 30
- B 32
- C 58
- D 62

**SULIT****9****1449/1**

- 9 In Diagram 4,  $P'$  is the image of  $P$  under a certain translation.  $Q'$  is the image of  $Q$  under the same translation.

*Dalam Rajah 4,  $P'$  ialah imej bagi  $P$  di bawah satu translasi tertentu.  $Q'$  ialah imej bagi  $Q$  di bawah translasi yang sama.*

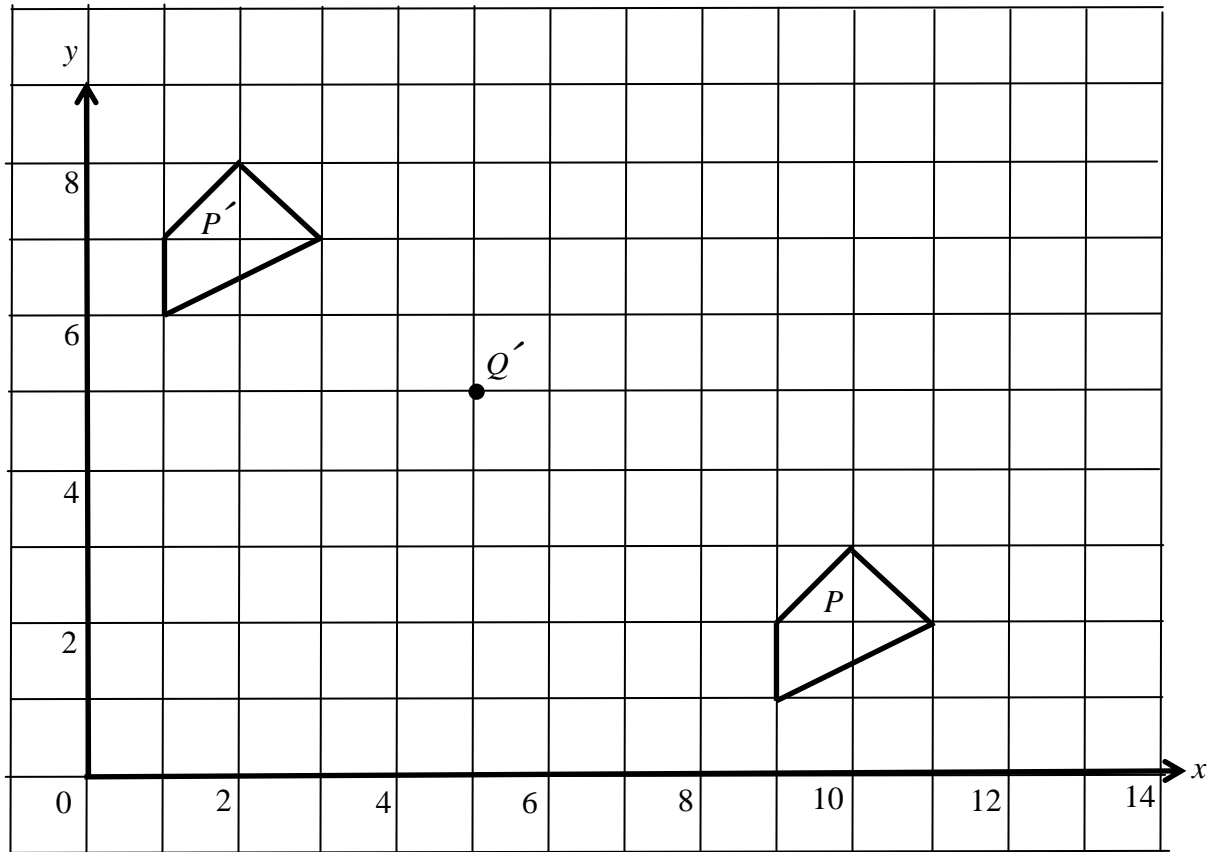


Diagram 4  
Rajah 4

Find the coordinates of  $Q$ .

*Carikan koordinat  $Q$*

- A  $(-3, 10)$
- B  $(13, 0)$
- C  $(-5, 12)$
- D  $(10, 13)$

**[Lihat sebelah  
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10 Diagram 5 shows the point  $X$  which is the image of point  $Y$  under a reflection.

*Rajah 5 menunjukkan titik  $X$  adalah imej bagi titik  $Y$  di bawah satu pantulan.*

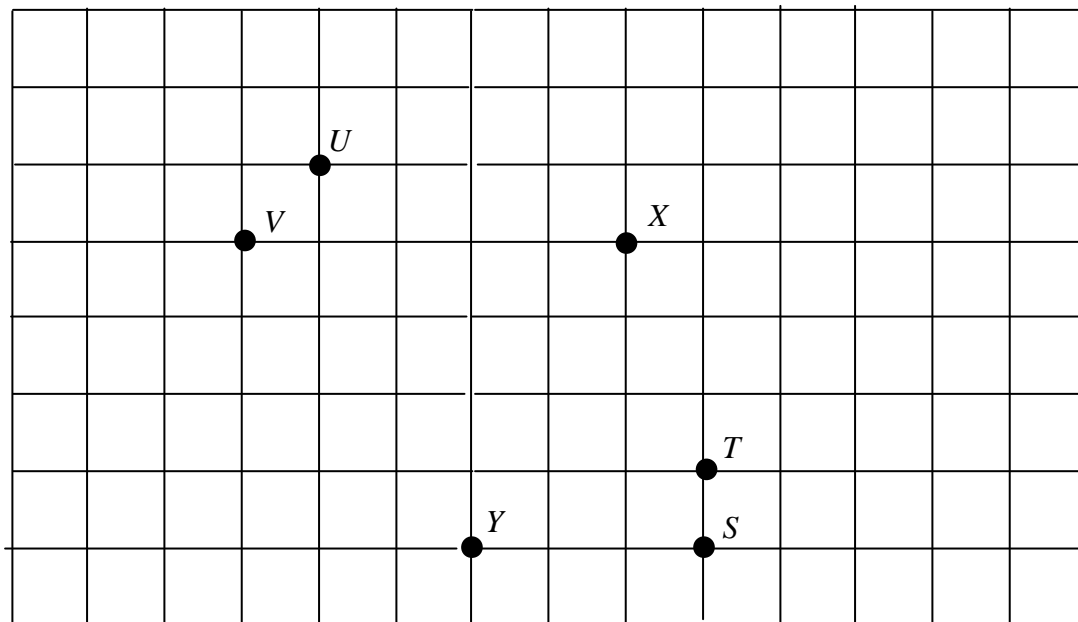


Diagram 5  
*Rajah 5*

Determine the axis of the reflection.

*Tentukan paksi pantulan tersebut.*

- A**  $TV$
- B**  $SU$
- C**  $SV$
- D**  $TU$

11 In Diagram 6, pentagon  $ABCDE$  is the image of the pentagon  $AFGHI$  under an enlargement.

*Dalam Rajah 6 pentagon  $ABCDE$  adalah imej bagi pentagon  $AFGHI$  di bawah satu pembesaran.*

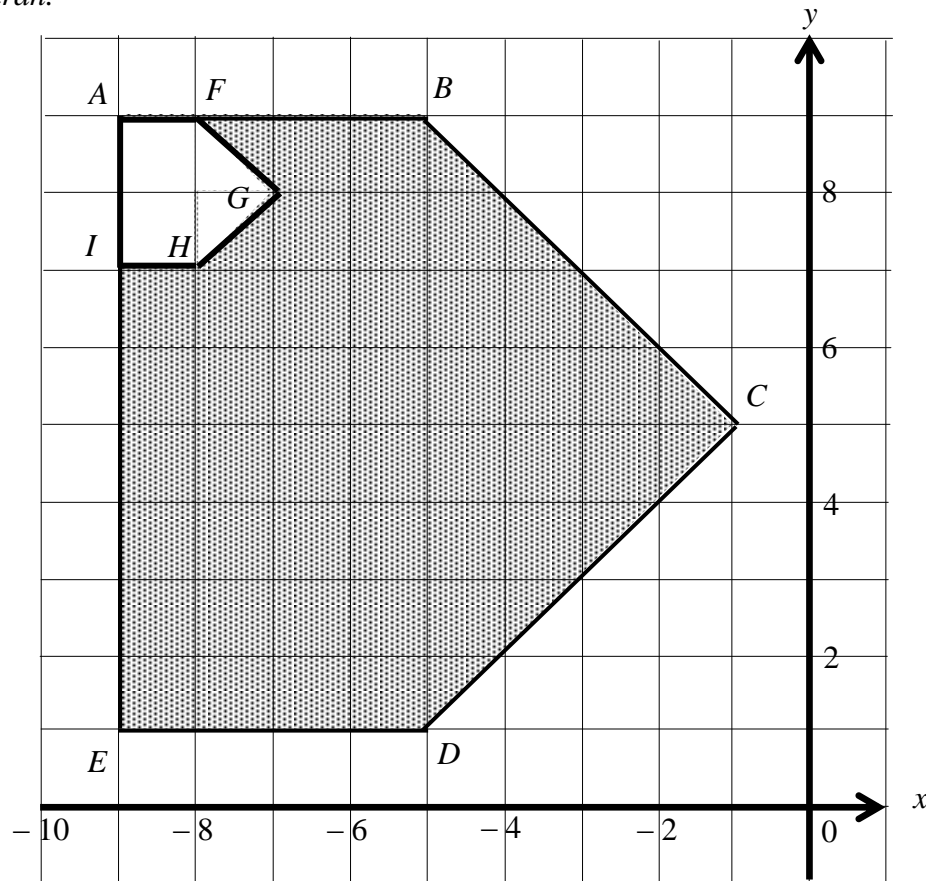


Diagram 6  
Rajah 6

If the area of the shaded region is  $360 \text{ cm}^2$ , calculate the area, in  $\text{cm}^2$ , of pentagon  $AFGHI$ .

*Jika luas kawasan berlorek ialah  $360 \text{ cm}^2$ , hitungkan luas, dalam  $\text{cm}^2$ , bagi pentagon  $AFGHI$ .*

- A 22.5
- B 24
- C 40
- D 120

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**SULIT****12****1449/1**

12 In Diagram 7,  $PTR$  is a straight line. Given that  $\cos x^\circ = \frac{5}{13}$  and  $\sin y^\circ = \frac{3}{5}$ .

Dalam Rajah 7,  $PTR$  ialah garis lurus. Diberi bahawa  $\cos x^\circ = \frac{5}{13}$  dan

$$\sin y^\circ = \frac{3}{5}$$

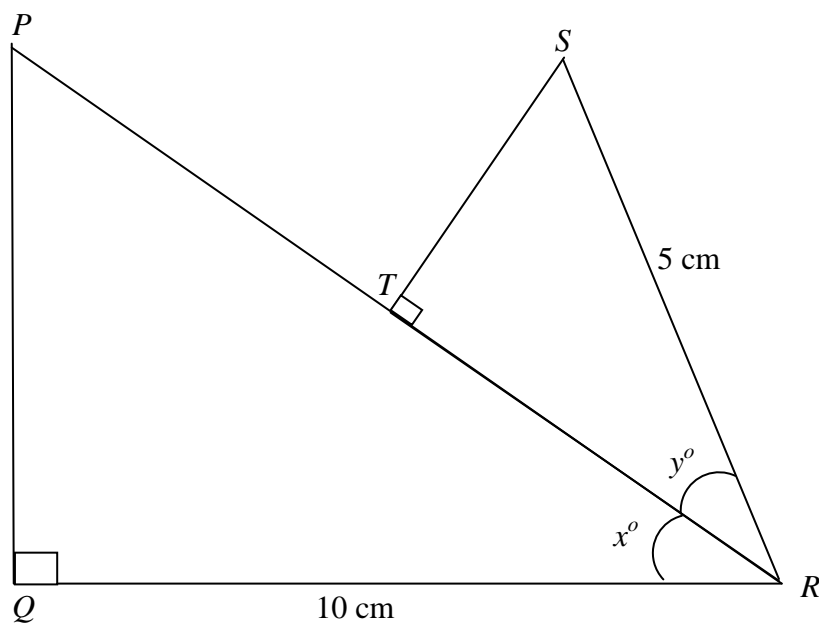


Diagram 7  
Rajah 7

Find the length, in cm, of  $PT$ .

Carikan panjang, dalam cm, bagi  $PT$ .

- A 10
- B 22
- C 23
- D 26

- 13 Given that  $\tan x^\circ = -\tan 60^\circ$ , where  $0^\circ \leq x^\circ \leq 270^\circ$ , find the value  $x$ .

*Diberi bahawa  $\tan x^\circ = -\tan 60^\circ$ , di mana  $0^\circ \leq x^\circ \leq 270^\circ$ , cari nilai  $x$ .*

- A 60
- B 120
- C 240
- D 300

- 14 Diagram 8 shows a right prism with a rectangular horizontal base  $RSTU$ . The prism has a uniform cross section in the form of trapezium  $PQRS$ .

*Rajah 8 menunjukkan sebuah prisma dengan tapak mengufuk yang berbentuk segiempat tepat  $RSTU$ . Prisma tersebut mempunyai keratan rentas seragam trapezium  $PQRS$ .*

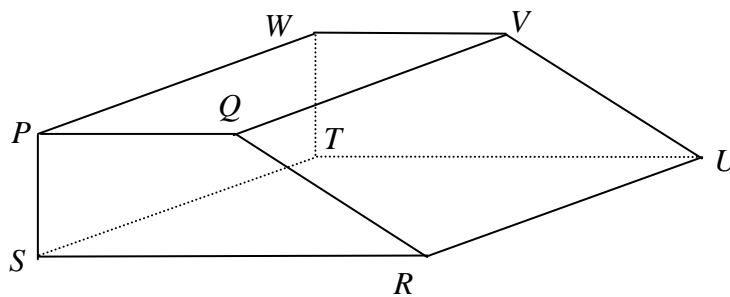


Diagram 8  
Rajah 8

Name the angle between the plane  $WSR$  and the plane  $RSTU$ .

*Namakan sudut di antara satah  $WSR$  dan satah  $RSTU$ .*

- A  $\angle WRT$
- B  $\angle WRU$
- C  $\angle WSR$
- D  $\angle WST$

- 15 In Diagram 9,  $MN$  is a vertical television antenna on top of a building. Given that the angles of elevation of  $M$  and  $N$  from the point  $Q$  are  $31.3^\circ$  and  $28.1^\circ$  respectively.

*Dalam Rajah 9,  $MN$  ialah antena televisyen yang tegak di puncak sebuah bangunan. Diberi sudut dongakan  $M$  dan  $N$  dari titik  $Q$  masing-masing ialah  $31.3^\circ$  dan  $28.1^\circ$ .*

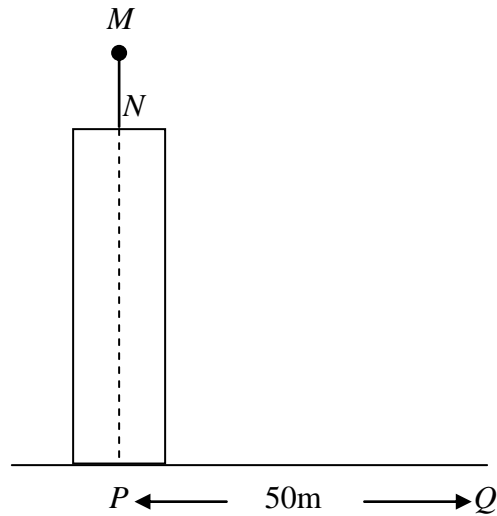


Diagram 9

Rajah 9

Calculate the height, in m, of the television antenna.

*Hitungkan tinggi, dalam m, antena televisyen tersebut.*

- A 2.42
- B 2.80
- C 3.70
- D 11.40

**16** In Diagram 10,  $P$ ,  $Q$  and  $R$  are three points on a horizontal plane.

*Dalam Rajah 10,  $P$ ,  $Q$  dan  $R$  adalah tiga titik di atas suatu satah mengufuk.*

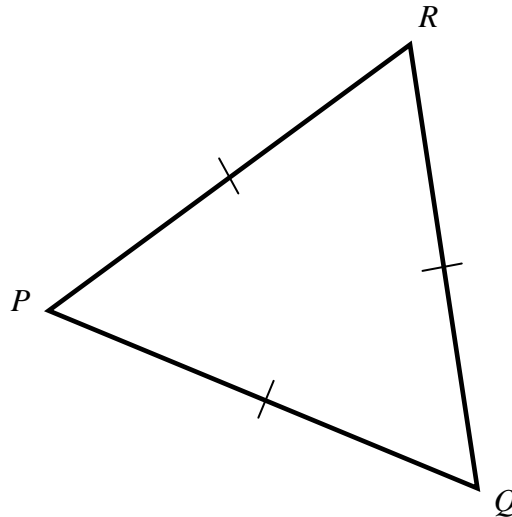


Diagram 10  
Rajah 10

Given that  $Q$  is due east of  $R$ , find the bearing of  $Q$  from  $P$ .

*Diberi bahawa  $Q$  berada di timur  $R$ , cari bearing  $Q$  dari  $P$ .*

- A**  $030^\circ$
- B**  $060^\circ$
- C**  $120^\circ$
- D**  $240^\circ$

- 17** An aeroplane flew 1320 nautical miles from  $P(80^\circ N, 10^\circ E)$  to  $Q$  via the North Pole. Find the position of  $Q$ .

*Sebuah pesawat terbang 1320 batu nautika dari  $P(80^\circ U, 10^\circ T)$  ke  $Q$  melalui Kutub Utara. Cari kedudukan  $Q$ .*

- A**  $(80^\circ N, 10^\circ E)$   
 $(80^\circ U, 10^\circ T)$
- B**  $(80^\circ N, 170^\circ W)$   
 $(80^\circ U, 170^\circ B)$
- C**  $(78^\circ N, 30^\circ E)$   
 $(78^\circ U, 30^\circ T)$
- D**  $(78^\circ N, 170^\circ W)$   
 $(78^\circ U, 170^\circ B)$

- 18 In Diagram 11,  $NOS$  is the polar axis of the Earth. Given that  $\angle PON = 50^\circ$  and  $\angle QOR = 120^\circ$ .

*Dalam Rajah 11,  $NOS$  ialah paksi bumi. Diberi  $\angle PON = 50^\circ$  dan  $\angle QOR = 120^\circ$ .*

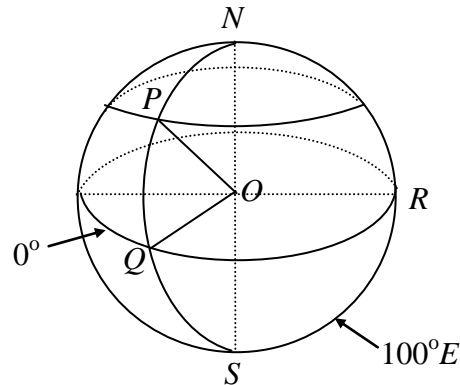


Diagram 11  
Rajah 11

Find the position of  $P$ .

*Carikan kedudukan  $P$ .*

- A** (  $40^\circ N$ ,  $20^\circ W$  )  
(  $40^\circ U$ ,  $20^\circ B$  )
- B** (  $40^\circ N$ ,  $120^\circ W$  )  
(  $40^\circ U$ ,  $120^\circ B$  )
- C** (  $50^\circ N$ ,  $20^\circ W$  )  
(  $50^\circ U$ ,  $20^\circ B$  )
- D** (  $50^\circ N$ ,  $120^\circ W$  )  
(  $50^\circ U$ ,  $120^\circ B$  )

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$$19 \quad \frac{-24pq + 16q^2}{2q - 3p} =$$

- A  $-4q$
- B  $-8q$
- C  $4q$
- D  $8q$

$$20 \quad \text{Factorise completely } 6mp - 12np - 4n + 2m$$

*Faktorkan selengkapnya*  $6mp - 12np - 4n + 2m$

- A  $(6p + 2)(m - 2n)$
- B  $2(3p - 1)(m + 2n)$
- C  $2(3p + 1)(m + 2n)$
- D  $2(3p + 1)(m - 2n)$

$$21 \quad \text{Given that } A = \frac{1}{2} \left( \sqrt[3]{\frac{B}{C}} \right), \text{ express } B \text{ in terms of } A \text{ and } C.$$

*Di beri bahawa*  $A = \frac{1}{2} \left( \sqrt[3]{\frac{B}{C}} \right), \text{ ungkapkan } B \text{ dalam sebutan } A \text{ dan } C.$

- A  $B = 2A^3C$
- B  $B = 6A^3C$
- C  $B = 8A^3C$
- D  $B = \frac{A^3}{8C}$

- 22 Given that  $5(8 - m) = \frac{5m}{2} - 5$ , find the value of  $m$ .

*Diberi  $5(8 - m) = \frac{5m}{2} - 5$ , carikan nilai  $m$ .*

A 3

B  $5\frac{2}{3}$

C 6

D  $8\frac{2}{3}$

- 23 Express  $\frac{m-4}{4m} - \frac{2m-5}{m}$  as a single fraction in its simplest form.

*Ungkapkan  $\frac{m-4}{4m} - \frac{2m-5}{m}$  sebagai satu pecahan tunggal dalam bentuk termudah.*

A  $-\frac{7m+24}{4m}$

B  $\frac{16-7m}{4m}$

C  $\frac{1-m}{4m}$

D  $\frac{7m-16}{4m}$

24  $\frac{(3mn^3)^2}{3mn \times m^2n^3} =$

A  $\frac{2n^2}{m^2}$

B  $\frac{2n^2}{m}$

C  $\frac{3n^5}{m}$

D  $\frac{3n^2}{m}$

25 Given that  $2^{3x} = 32(2^{-x})$ , find the value of  $x$ .

*Diberi  $2^{3x} = 32(2^{-x})$ , cari nilai  $x$ .*

A  $\frac{3}{4}$

B 1

C  $\frac{5}{3}$

D  $\frac{5}{4}$

26 Given that  $h$  is an integer, find all the values of  $h$  that satisfy both inequalities

$$\frac{h}{4} < 2 \text{ and } 28 - 7h \leq -3.$$

*Diberi  $h$  ialah integer, carikan semua nilai  $h$  yang memuaskan kedua-dua ketaksamaan*

$$\frac{h}{4} < 2 \text{ dan } 28 - 7h \leq -3.$$

A 5, 6, 7

B 4, 5, 6, 7

C 5, 6, 7, 8

D 4, 5, 6, 7, 8

27 Table 1 shows the distribution of marks for 50 students.

*Jadual 1 menunjukkan taburan markah bagi 50 orang pelajar.*

Marks <i>Markah</i>	Number of students <i>Bilangan pelajar</i>
6 - 10	7
11 - 15	11
16 - 20	8
21 - 25	12
26 - 30	9
31 - 35	3

Table 1  
*Jadual 1*

Calculate the mean mark .

*Hitungkan min markah.*

- A** 17.4
- B** 19.4
- C** 21.4
- D** 37.6

**[Lihat sebelah  
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**28** Histogram in Diagram 12 shows the weight, in kg, of 30 students.

*Histogram dalam Rajah 12 menunjukkan berat, dalam kg, bagi 30 orang pelajar.*

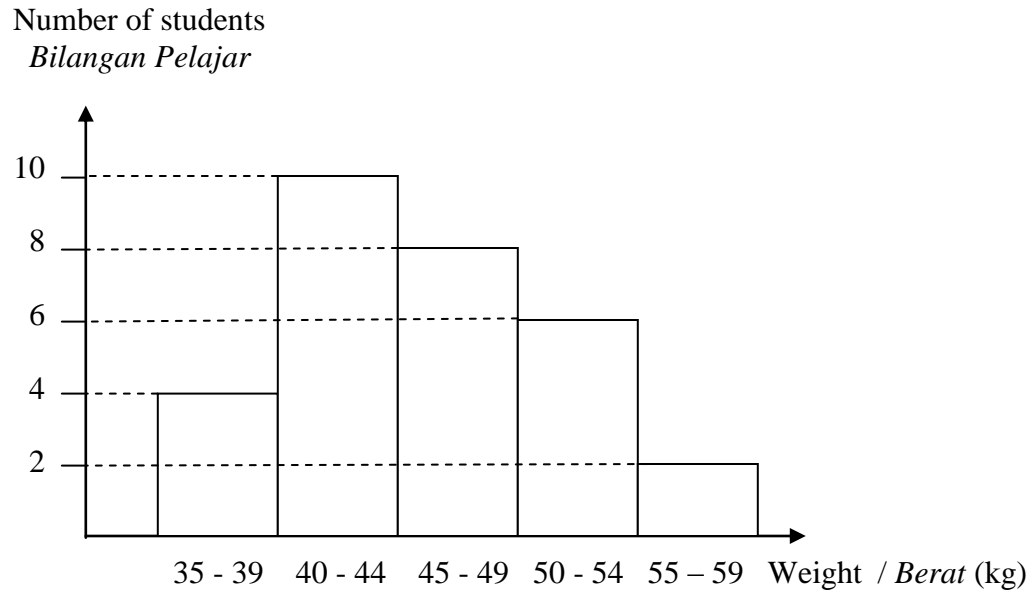


Diagram 12

*Rajah 12*

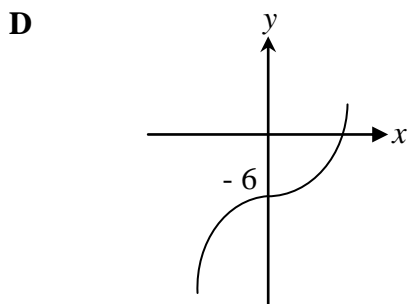
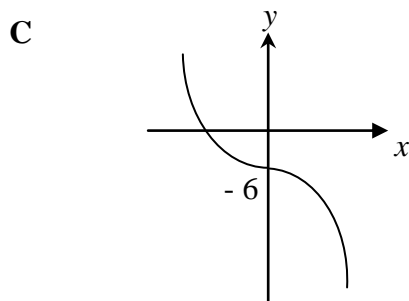
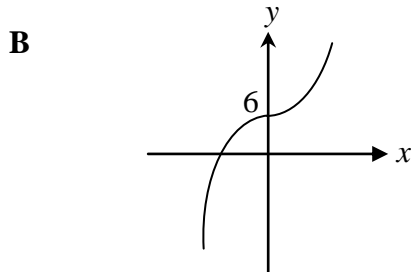
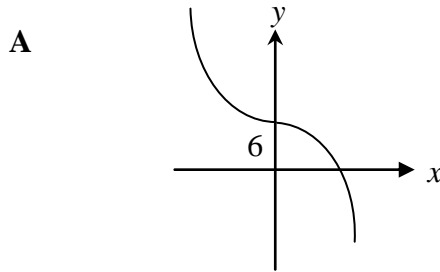
Calculate the percentage of students whose weight is more than 44 kg.

*Hitungkan peratus pelajar yang mempunyai berat lebih daripada 44 kg.*

- A** 26.67
- B** 33.33
- C** 53.33
- D** 86.67

29 Which of the following represents the graph of  $y = -\frac{1}{2}x^3 + 6$  ?

*Antara yang berikut, yang manakah mewakili graf  $y = -\frac{1}{2}x^3 + 6$  ?*



- 30 It is given that the universal set  $\xi = \{x : 2 \leq x \leq 30, x \text{ is an integer}\}$ , set  $H = \{x : x \text{ is a perfect square}\}$ , and set  $N = \{x : x \text{ is a multiple of } 4\}$ .

*Diberi set semesta  $\xi = \{x : 2 \leq x \leq 30, x \text{ ialah integer}\}$ , set  $H = \{x : x \text{ ialah kuasa dua sempurna}\}$ , dan set  $N = \{x : x \text{ ialah gandaan } 4\}$ .*

Find  $n(H' \cap N)$ .

*Carikan  $n(H' \cap N)$ .*

- A** 2  
**B** 5  
**C** 9  
**D** 20

- 31 Diagram 13 is a Venn diagram with the universal set,  $\xi = L \cup M \cup N$ .

*Rajah 13 ialah sebuah gambarajah Venn yang menunjukkan set semesta  $\xi = L \cup M \cup N$ .*

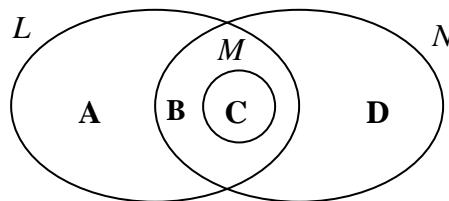


Diagram 13  
*Rajah 13*

Which of the region, **A**, **B**, **C** or **D**, represents set  $L \cap N \cap M'$  ?

*Rantau yang manakah **A**, **B**, **C** atau **D**, yang mewakili set  $L \cap N \cap M'$  ?*

32 Diagram 14 is a Venn diagram showing set  $\xi$ , set  $R$  and set  $S$ .

Rajah 14 ialah sebuah gambarajah Venn yang menunjukkan set  $\xi$ , set  $R$  dan set  $S$ .

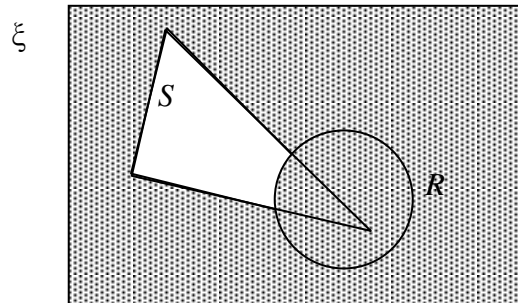


Diagram 14  
Rajah 14

Which of the following represents the shaded region?

Yang manakah mewakili rantau yang berlorek?

- A  $R \cup S'$
- B  $R \cap S'$
- C  $S \cup R'$
- D  $S \cap R'$

[Lihat sebelah  
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- 33 In Diagram 15,  $PQ$  is parallel to  $RS$ . The equation of the straight line  $RS$  is  $y = 2x - 7$ . The point  $F$  lies on the  $x$ -axis.

*Dalam Rajah 15,  $PQ$  dan  $RS$  adalah selari. Persamaan bagi garis lurus  $RS$  ialah  $y = 2x - 7$ . Titik  $F$  berada di atas paksi- $x$ .*

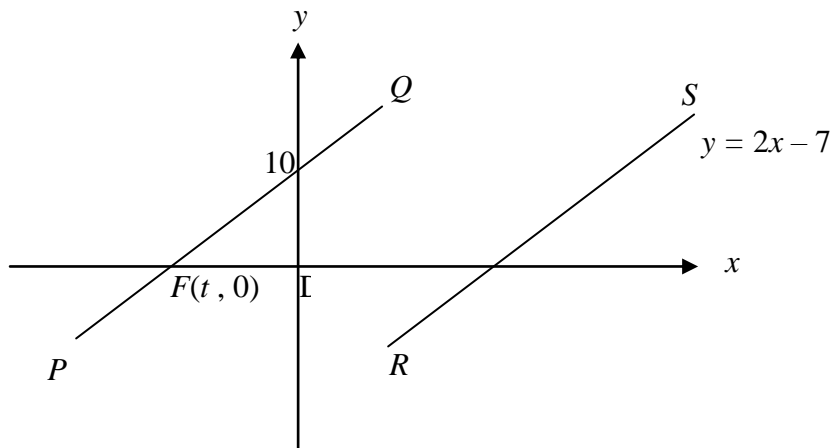


Diagram 15  
Rajah 15

Find the value of  $t$ .

*Cari nilai  $t$ .*

- A**  $-20$   
**B**  $-10$   
**C**  $-5$   
**D**  $-2.5$
- 34 Find the equation of the straight line with the  $y$ -intercept of 5 and passes through  $P(6, -3)$ .

*Carikan persamaan garis lurus dengan pintasan- $y$  ialah 5 dan melalui  $P(6, -3)$ .*

- A**  $y = -\frac{4}{3}x + 5$   
**B**  $y = \frac{4}{3}x + 5$   
**C**  $y = -\frac{3}{4}x + 5$   
**D**  $y = \frac{3}{4}x + 5$

- 35** Table 2 shows the number of stamps in an envelope. A stamp is taken out from the envelope randomly.

*Jadual 2 menunjukkan bilangan setem di dalam satu sampul surat. Sekeping setem dikeluarkan secara rawak daripada sampul surat itu.*

Stamp <i>Setem</i>	10 sen	20 sen	30 sen	50 sen
Number of stamps <i>Bilangan setem</i>	10	30	50	10

Table 2  
*Jadual 2*

Find the probability that the selected stamp is less than 50 sen.

*Carikan kebarangkalian bahawa setem yang dipilih itu kurang daripada 50 sen.*

- A**  $\frac{1}{10}$
- B**  $\frac{2}{5}$
- C**  $\frac{1}{2}$
- D**  $\frac{9}{10}$

**36** Zaid has a collection of coins from Britain, Indonesia and the Philippines.

He picks one coin at random. The probability of picking an Indonesian coin is  $\frac{1}{3}$

and the probability of picking a Philippine coin is  $\frac{4}{9}$ . Zaid has 10 British coins.

Calculate the total number of coins in his collection.

*Zaid mempunyai satu koleksi duit syiling dari negara Britain, Indonesia dan Filipina.*

*Dia memilih sekeping duit syiling secara rawak. Kebarangkalian memilih duit syiling*

*Indonesia ialah  $\frac{1}{3}$  dan kebarangkalian memilih duit syiling Filipina ialah  $\frac{4}{9}$ . Zaid*

*mempunyai 10 duit syiling British. Hitungkan jumlah bilangan duit syilingnya.*

**A** 30

**B** 35

**C** 45

**D** 70

**37** If  $t$  varies directly as the cube of  $s$  and  $t = 6$  when  $s = 2$ , calculate the value of  $s$  when  $t = 48$ .

*Jika  $t$  berubah secara langsung dengan kuasa tiga  $s$  dan  $t = 6$  apabila  $s = 2$ , hitungkan nilai  $s$  apabila  $t = 48$ .*

**A**  $\frac{3}{4}$

**B**  $\frac{4}{3}$

**C** 4

**D** 8

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**38** Table 3 shows the values of the variables  $u, v$  and  $w$  where  $u$  varies directly as the square of  $v$  and inversely as  $w$ .

*Jadual 3 menunjukkan nilai bagi pemboleh ubah  $u, v$  dan  $w$  dengan keadaan  $u$  berubah secara langsung dengan kuasa dua  $v$  dan berubah secara songsang dengan  $w$ .*

$u$	$v$	$w$
40	4	2
$r$	6	4

Table 3  
*Jadual 3*

Calculate the value of  $r$ .

*Hitungkan nilai bagi  $r$ .*

- A** 12
- B** 30
- C** 45
- D** 180

**[Lihat sebelah  
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39 Given  $\begin{pmatrix} 7 \\ 2 \end{pmatrix} + \begin{pmatrix} 8 \\ 5n \end{pmatrix} = -3 \begin{pmatrix} -5 \\ 1 \end{pmatrix}$ , find the value of  $n$ .

*Diberi bahawa*  $\begin{pmatrix} 7 \\ 2 \end{pmatrix} + \begin{pmatrix} 8 \\ 5n \end{pmatrix} = -3 \begin{pmatrix} -5 \\ 1 \end{pmatrix}$ , *cari nilai*  $n$ .

A  $-5$

B  $-1$

C  $-\frac{1}{5}$

D  $\frac{1}{5}$

40 Given  $\begin{pmatrix} 4 & m \\ 5 & -2 \end{pmatrix} \begin{pmatrix} m \\ -1 \end{pmatrix} = \begin{pmatrix} -9 \\ -13 \end{pmatrix}$ , find the value of  $m$ .

*Diberi*  $\begin{pmatrix} 4 & m \\ 5 & -2 \end{pmatrix} \begin{pmatrix} m \\ -1 \end{pmatrix} = \begin{pmatrix} -9 \\ -13 \end{pmatrix}$ , *cari nilai*  $m$ .

A  $-3$

B  $-\frac{9}{5}$

C  $-\frac{1}{3}$

D  $\frac{3}{2}$

**END OF QUESTION PAPER**

***KERTAS SOALAN TAMAT***