

REVISION 12.2 FORM 2

SECTION C

Answer all of the following question in the answer space provided

6. a) Titik Q' (-4,2) adalah imej bagi titik Q(h, 6) di bawah translasi $\begin{pmatrix} 5 \\ -4 \end{pmatrix}$.

Point Q' (-4,2) is the image of point Q (h,6) under the translation $\begin{pmatrix} 5 \\ -4 \end{pmatrix}$.

- (i) Nyatakan nilai h.
State the value of h.
- (ii) Cari imej bagi W(4, 7) di bawah translasi yang sama.
Find the image of W(4,-1) under the same translation.

Jawapan/Answer:

[2 markah/ 2 marks]

(i) $\quad + \quad =$

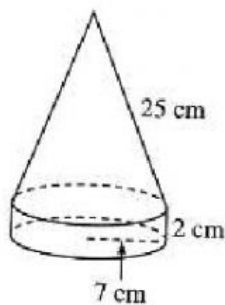
$h =$

(ii) Coordinate x = $\quad + \quad =$

Coordinate y = $\quad + \quad =$

Image point is ($\quad$, $\quad$)

- b) Rajah 16 menunjukkan sebuah pepejal gabungan yang terdiri daripada sebuah kon dan sebuah silinder. Cari jumlah luas permukaan, dalam cm^2 , pepejal itu.
Diagram 16 shows a composite solid consisting of a cone and a cylinder. Find the total surface area, in cm^2 , of the solid.



Rajah 16
Diagram 16

Guna / Use $\pi = \frac{22}{7}$

Jawapan/Answer:

[3 markah/ 3 marks]

Total surface area of cylinder =

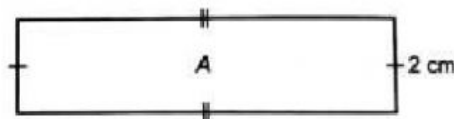
$\times \quad \times \quad + \quad \times \quad \times \quad \times \quad =$

Total surface area of cone =

$$\underline{\hspace{2cm}} \times \hspace{1cm} + \underline{\hspace{2cm}} \times \hspace{1cm} \times \hspace{1cm} =$$

Total = + =

- 7.a) Rajah 18 di bawah menunjukkan satu segi empat tepat A. Diberi perimeter bagi A ialah 20 cm.
Diagram 18 below shows a rectangle A. Given that the perimeter of A is 20cm.



Rajah 18
Diagram 18

- (i) Hitung luas dalam cm^2 bagi A.
Calculate the area in cm^2 of A.

Jawapan/ Answer :

[2 markah/2 marks]

Length = - - =

Area = x =

- b) Rajah 19 dibawah menunjukkan bilangan guli yang berbeza di dalam sebuah kotak.
 Bilangan guli biru dan kuning tidak ditunjukkan.
Diagram 19 below shows the number of different marbles in a box. The numbers of blue and yellow marbles are not shown.

Merah / Red	: 30
Biru / Blue	: x
Kuning / Yellow	: y

Rajah 19
Diagram 19

Nisbah guli merah, biru dan kuning di dalam kotak itu ialah 5 : 7 : 3. Cari nilai $x - y$.
The ratio of red, blue and yellow marbles in the box is 5 : 7 : 3. Find the value of $x - y$.

Jawapan/Answer :

[4 markah/4 marks]

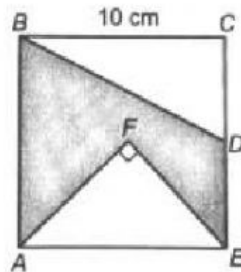
$$\frac{x}{\hspace{2cm}} = \frac{\hspace{2cm}}{\hspace{2cm}} \qquad \frac{y}{\hspace{2cm}} = \frac{\hspace{2cm}}{\hspace{2cm}}$$

$$x = \hspace{2cm} \times \hspace{2cm} = \hspace{2cm} \qquad y = \hspace{2cm} \times \hspace{2cm} = \hspace{2cm}$$

$$x - y = \hspace{2cm} - \hspace{2cm} = \hspace{2cm}$$

- 8.a) Rajah 21 di bawah menunjukkan sebuah segi empat sama ABCE dan sebuah segi tiga bersudut tegak AFE. Diberi bahawa D ialah titik tengah CE dan $AF = 8\text{cm}$. Hitung luas kawasan berlorek.

The diagram 21 shows a square ABCE and a right-angled triangle AFE. It is given that D is the midpoint of CE and $AF = 8\text{cm}$. Calculate the area of the shaded region.



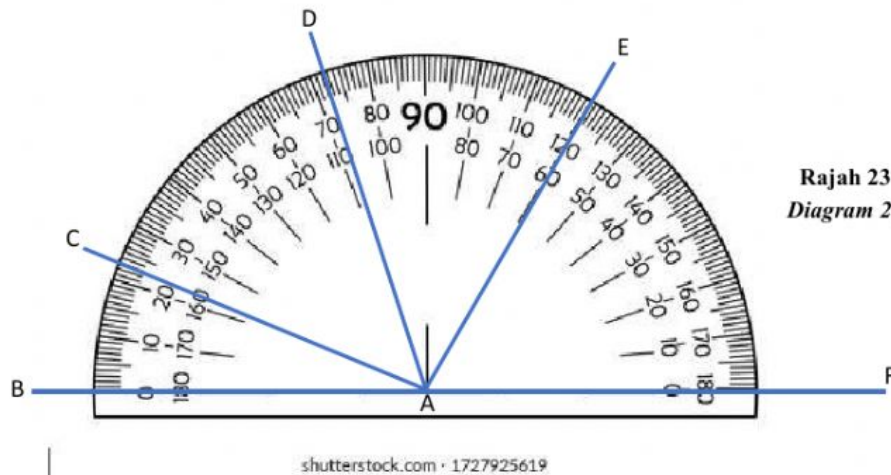
Rajah 21
Diagram 21

Jawapan/ Answer :

[3 markah/3 marks]

$$\begin{aligned}
 EF &= \sqrt{\quad} & BD &= \sqrt{\quad} \\
 &= & &= \\
 &+ & + & + & + & =
 \end{aligned}$$

b.



Rajah 23
Diagram 23

Berdasarkan rajah 23 di atas, nyatakan nilai setiap sudut berikut.
Based on the diagram 23 state the angle shown above.

Jawapan/Answer:

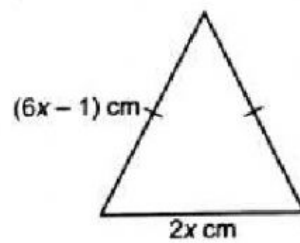
[2 markah/2 marks]

(i) $\angle EAF$

(ii) $\angle BAC$

9. (i) Rajah 24 di bawah menunjukkan sebuah segi tiga sama kaki. Tulis perimeter, dalam cm, bagi rajah di atas dalam sebutan x .

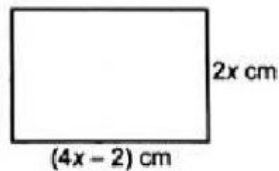
The diagram 24 below shows an isosceles triangle. Write the perimeter, in cm, of the diagram above in term of x .



Rajah 24
Diagram 24

- (ii) Rajah 25 di bawah menunjukkan sebuah segi empat tepat. Tulis luas, dalam cm^2 , segi empat tepat itu dalam sebutan x .

The diagram 25 below shows a rectangle. Write the area, in cm^2 , of the rectangle in term of x .



Rajah 25
Diagram 25

Jawapan / Answer:

[4 markah/4 marks]

(i) (-) + (-) +

=

=

(ii) () =

KERTAS SOALAN TAMAT