

REVISION 1 (Section B and C questions)

Answer **all** questions

Jawab **semua** soalan

1

(a) Given $c = 4d + b^2$

Diberi $c = 4d + b^2$.

(i) Express d in terms of c and b .

[2 marks]

Ungkapkan d dalam sebutan c dan b .

[2 markah]

Answer / Jawapan

$$=$$

$$d = \frac{\quad}{\quad}$$

(ii) Hence, find the value of d if $c = 4$ and $b = -6$.

[2 marks]

Seterusnya, cari nilai d jika $c = 4$ dan $b = -6$

[2 markah]

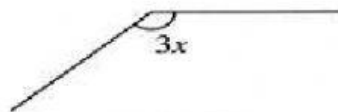
Answer / Jawapan

$$d = \frac{\quad}{\quad}$$

$$=$$

(c) Diagram 1.1 below shows a frame.

Rajah 1.1 di bawah menunjukkan sebuah bingkai.



Rajah 1.1

When four frames are combined, a regular polygon is produced. Find the value of x .

Apabila empat buah bingkai dicantum bersama, sebuah poligon sekata dihasilkan. Cari nilai x .

Answer / Jawapan

[3 marks]
[3 markah]

Interior angle = () $\times$ =

=

x =

2. (a) (i) Expand.
Kembangkan
 $-5(3 - y)$
Answer / Jawapan

[1 mark]
[1 markah]

- (ii) Factorise completely $x^3 - xy^2$.
Faktorkan $x^3 - xy^2$ selengkapnya.
Answer / Jawapan

[2 marks]
[2 markah]

(² ²)

() ()

- (b) Diagram 2.1 shows a pyramid with a square base.
Rajah 2.1 menunjukkan sebuah piramid bertapak segi empat sama.

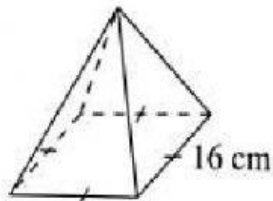


Diagram 2.1
Rajah 2.1

The height of the pyramid is 6 cm. Calculate the total surface area, in cm^2 , of the pyramid.
Tinggi piramid itu ialah 6 cm. Hitung jumlah luas permukaan, dalam cm^2 , piramid itu.

Answer / Jawapan

[3 marks]
[3 markah]

× × × ——— × ×

=

- 3 On the answer space, click at the subjects of the formulae.

[3 marks]
[3 markah]

Pada ruang jawapan, klik pada perkara rumus.

Answer / Jawapan

a) $F = ma$

F	m	a
-----	-----	-----

b) $u = v - at$

u	v	a	t
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c) $2\pi\sqrt{\frac{1}{g}} = T$

π	g	T
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- 4 (a) Diagram 4.1 shows a combination of polygons.
Rajah 4.1 menunjukkan satu kombinasi poligon.

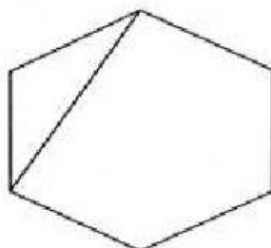


Diagram 4.1
Rajah 4.1

Name the three polygons shown in the Diagram 4.1.
Namakan tiga buah poligon yang ditunjukkan dalam Rajah 4.1.
Answer / Jawapan

[3 marks]
[3 markah]

(i) _____

(ii) _____

(iii) _____

- (b) Diagram 4.2 shows a capsule of pain resistant pill with cylinder-shaped and hemisphere-shaped at both ends.

Rajah 4.2 menunjukkan pil tahan sakit berbentuk silinder dengan kedua-dua hujungnya berbentuk hemisfera.

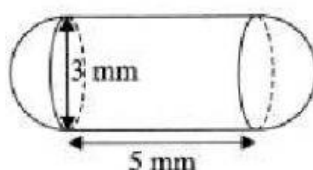


Diagram 4.2

Rajah 4.2

- (i) Find the volume of the pill capsule.

[3 marks]

Cari isipadu kapsul tersebut.

[3 markah]

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

Answer / Jawapan

Volume of sphere = _____ $\times$ _____ $\times$ 3

=

Volume of cylinder = _____ $\times$ _____ $\times$ 2 $\times$

Volume of pill = _____ =

- (ii) If one patient's pain resistant dose is 99 mm^3 , how many pills should be taken by the patient in one time?

Jika satu dos tahan sakit bagi seorang pesakit ialah 99 mm^3 , berapa biji pil perlu diambil oleh pesakit dalam satu masa?

Answer / Jawapan

[1 mark]

[1 markah]

Number of pill = _____ =