

BAHAGIAN A/ SECTION A

[20 markah/ marks]

Jawab semua soalan./ Answer all questions.

- 1 Diberi $(3^{-2})^3 \times (3^{-3})^x = 1$, cari nilai x .

Given $(3^{-2})^3 \times (3^{-3})^x = 1$, find the value of x .

- A 2
- B -2
- C $-\frac{1}{2}$
- D $\frac{1}{2}$

- 2 Sebuah poligon mempunyai 5 sisi. Namakan poligon tersebut dan nyatakan bilangan pepenjurunya.

A polygon has 5 sides. Name the polygon and state the number of diagonals.

- A Nonagon, 27
Nonagon, 27
- B Dekagon, 35
Decagon, 35
- C Pentagon, 25
Pentagon, 25
- D Pentagon, 5
Pentagon, 5

- 3 Faktorkan selengkapnya $4 - 100a^2$.

Factorise completely $4 - 100a^2$.

- A $(2 - 10a)^2$
- B $4(1 - 25a^2)$
- C $(2 - 10a)(2 + 10a)$
- D $4(1 - 5a)(1 + 5a)$

- 4 Diberi $P(5, 3)$, nyatakan koordinat bagi imej P di bawah pantulan pada paksi-y.

Given $P(5, 3)$, state the coordinate of image P under a reflection of y -axis.

- A $(-5, 3)$
- B $(5, -3)$
- C $(-5, -3)$
- D $(5, 3)$

- 5 Diberi sebuah pepejal mempunyai 5 permukaan rata, 5 bucu dan 8 sisi.

Given a solid has 5 flat surfaces, 5 vertices and 8 sides.

Namakan pepejal tersebut.
Name that solid.

- A Kubus
Cube
- B Tetrahedron
Tetrahedron
- C Silinder
Cylinder
- D Pyramid
Piramid

- 6 Jadual 1 menunjukkan panjang reben P, Q, R dan S .
Table 1 shows the length of ribbons P, Q, R and S .

| Reben Ribbon | Panjang Length |
|-----------------|---|
| P | 100 cm |
| Q | 120 cm |
| R | 80 cm kurang daripada reben Q 80 cm less than the length of ribbon Q |
| S | 60% daripada panjang reben R 60% of the length of ribbon R |

Jadual 1/ Table 1

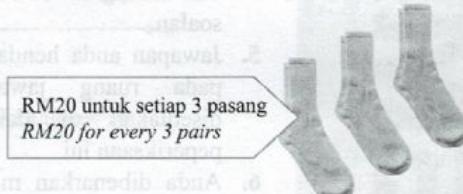
Hitung purata panjang reben P, Q, R dan S , dalam cm.

Calculate the average length of ribbons P, Q, R and S , in cm.

- A 284
- B 71
- C 40
- D 24

- 7 Rajah 1 menunjukkan harga stoking yang dijual di sebuah kedai.

Diagram 1 shows the price of socks sold in a store.



Rajah 1/ Diagram 1

Harga kos bagi 120 pasang stoking ialah RM600. Berapakah peratus keuntungan pemilik kedai jika dia berjaya menjual kesemua 120 pasang stoking?
The cost price of 120 pairs of socks is RM600. What is the percentage of the profit earn by the store owner if he sold out all the 120 pairs of socks?

- A $133\frac{1}{3}\%$
- B $66\frac{2}{3}\%$
- C 50%
- D $33\frac{1}{3}\%$