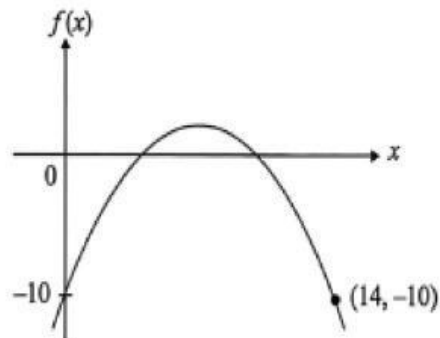


- 1 Permudahkan.
Simplify.

$$-12c^9 \div 3c^2 \div 2c^5$$

- A $7c^{16}$
B $2c^2$
C $-7c^{16}$
D $-2c^2$
- 2 Tentukan koordinat titik tengah bagi pasangan titik $R(6, 10)$ dan $S(-12, 8)$.
Determine the coordinates of the midpoint of the pair of points $R(6, 10)$ and $S(-12, 8)$.
- A $(9, 1)$
B $(3, -9)$
C $(-9, 1)$
D $(-3, 9)$
- 3 Rajah 1 menunjukkan graf suatu fungsi kuadratik.
Diagram 1 shows a graph of a quadratic function.



Rajah 1
Diagram 1

Tentukan persamaan paksi simetri bagi graf fungsi kuadratik itu.
Determine the equation of the axis of symmetry of the graph of the quadratic function.

- A $x = 5$
B $x = 7$
C $x = 10$
D $x = 14$

- 4 Rajah 2 menunjukkan empat keping kad nombor yang disusun dengan urutan menaik.
Diagram 2 shows four number cards arranged in ascending order.

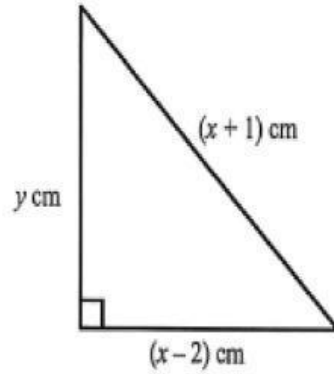


Rajah 2
Diagram 2

Antara berikut, yang manakah mewakili Q ?
Which of the following represents Q ?

- A 7.49×10^{-4}
B 7.49×10^{-3}
C 7.49×10^3
D 7.49×10^4
- 5 Diberi bahawa set $A = \{2, 3, 5, 7\}$ dan set $B = \{1, 2, 4, 5, 8\}$. Senaraikan semua unsur bagi set $A \cap B$.
It is given that set $A = \{2, 3, 5, 7\}$ and set $B = \{1, 2, 4, 5, 8\}$. List all the elements of set $A \cap B$.
- A $\{2, 5\}$
B $\{3, 8\}$
C $\{2, 3, 5\}$
D $\{1, 4, 7, 8\}$
- 6 Ungkapkan $5^5 + 4$ sebagai satu nombor dalam asas lima.
Express $5^5 + 4$ as a number in base five.
- A 14_5
B 41_5
C 100004_5
D 500004_5

- 7 Rajah 3 menunjukkan sebuah segi tiga.
Diagram 3 shows a triangle.



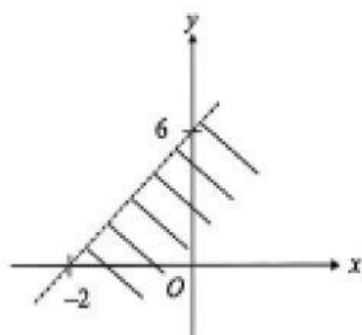
Rajah 3
Diagram 3

Ungkapkan y dalam sebutan x .
Express y in terms of x .

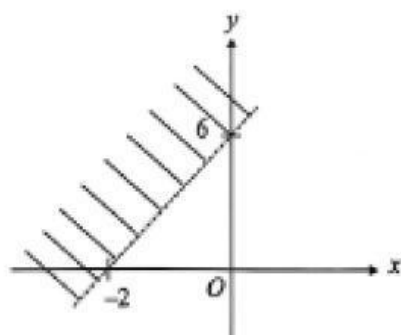
- A $y = \sqrt{6x - 3}$
 B $y = \sqrt{6x + 3}$
 C $y = \sqrt{2x^2 + 6x - 3}$
 D $y = \sqrt{2x^2 + 6x - 5}$
- 8 Faktorkan $6fg - 2fh - 3eg + eh$.
Factorize $6fg - 2fh - 3eg + eh$.
- A $(2f + e)(3g - h)$
 B $(2f - e)(3g + h)$
 C $(2f + e)(3g + h)$
 D $(2f - e)(3g - h)$

- 9 Antara rantau berikut, yang manakah memuaskan ketaksamaan linear $y \geq 3x + 6$?
Which of the following region satisfies the linear inequality $y \geq 3x + 6$?

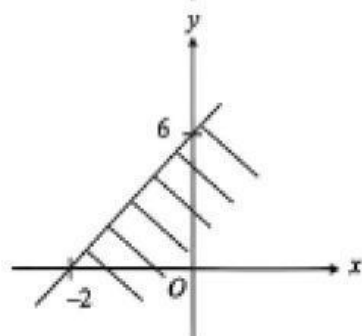
A



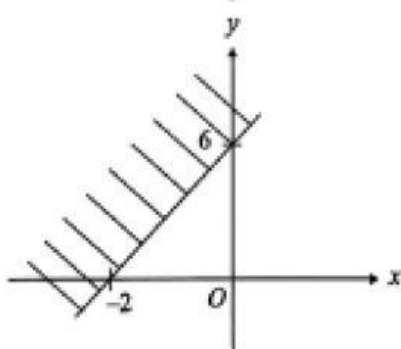
B



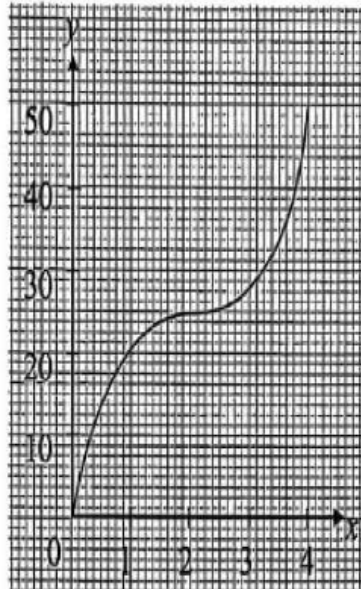
C



D



- 10 Rajah 4 menunjukkan graf bagi suatu fungsi.
Diagram 4 shows a graph of a function.



Rajah 4
Diagram 4

Tentukan nilai x apabila $y = 25$.
State the value of x when $y = 25$.

- A 1
- B 2
- C 3
- D 4