



Graf Fungsi

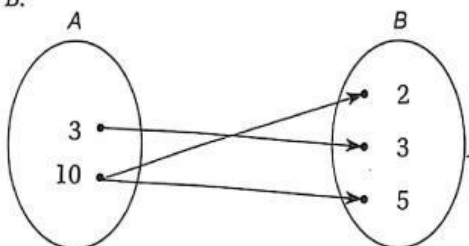
Graphs of Functions

Bahagian A/Section A

8.1 Fungsi Functions

- 1 Rajah 1 menunjukkan hubungan antara set A dengan set B.

Diagram 1 shows the relation between set A and set B.



Rajah 1/Diagram 1

Nyatakan jenis hubungan itu.

State the type of relation.

- A Satu kepada satu/One-to-one
B Satu kepada banyak/One-to-many
C Banyak kepada satu/Many-to-one
D Banyak kepada banyak/Many-to-many
- 2 Antara set pasangan tertib berikut, yang manakah merupakan fungsi?
Which of the following set of ordered pairs is a function?
- A $\{(2, 10), (4, 12), (6, 12), (6, 14)\}$
B $\{(2, 3), (3, 4), (3, 5), (5, 3)\}$
C $\{(1, 0), (2, 6), (3, 9), (3, 11)\}$
D $\{(0, 2), (2, 6), (3, 8), (5, 12)\}$

- 3 Set pasangan tertib dalam Rajah 2 menunjukkan hubungan bagi fungsi $f(x) = 3x - 2$ untuk domain $1 \leq x \leq 5$.

The set of ordered pairs in Diagram 2 shows the relation of the function $f(x) = 3x - 2$ for the domain $1 \leq x \leq 5$.

$\{(1, 1), (2, 4), (3, k), (4, 10), (5, 13)\}$

Rajah 2/Diagram 2

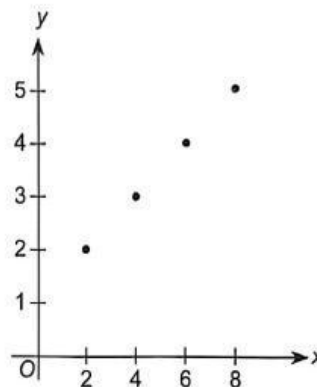
Cari nilai k .

Find the value of k .

- A 4
B 5
C 6
D 7

- 4 Graf dalam Rajah 3 menunjukkan fungsi yang memetakan x kepada y .

The graph in Diagram 3 shows the function that maps x to y .



Rajah 3/Diagram 3

Nyatakan julat bagi fungsi itu.

State the range of the function.

- A $\{2, 3, 4, 5, 6\}$
B $\{2, 4, 6, 8\}$
C $\{2, 3, 4, 5\}$
D $\{2, 4, 6\}$

8.2 Graf Fungsi Graphs of Functions

- 5 Antara berikut, jadual nilai yang manakah mewakili fungsi $y = x^2 - 4$?

Which of the following table of values represents the function $y = x^2 - 4$?

A

x	-1	0	1
y	-3	-4	-3

B

x	-1	0	1
y	3	4	3

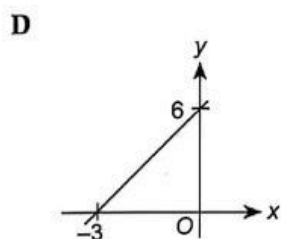
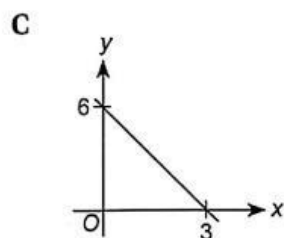
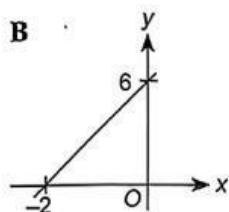
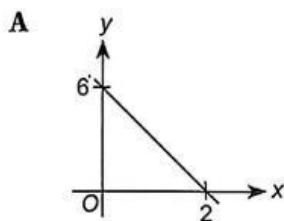
C

x	-1	0	1
y	-5	-4	-3

D

x	-1	0	1
y	-3	-4	-2

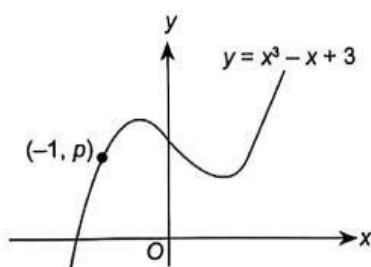
- 6 Antara berikut, yang manakah menunjukkan graf fungsi $y = -2x + 6$?
Which of the following shows the graph of the function $y = -2x + 6$?



- 7 Titik $(-2, -1)$ memuaskan fungsi
Point $(-2, -1)$ satisfies the function

- A $y = 2x + 1$
B $y = x^2 + 4$
C $y = -x + 1$
D $y = x + 1$

- 8 Rajah 4 menunjukkan graf bagi fungsi $y = x^3 - x + 3$.
Diagram 4 shows the graph of the function $y = x^3 - x + 3$.



Rajah 4/Diagram 4

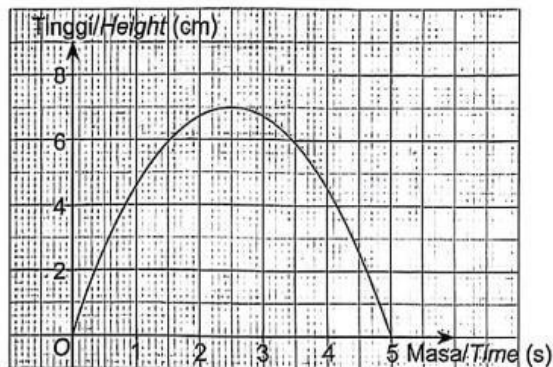
Cari nilai p .

Find the value of p .

- A 1 C 3
B 2 D 5

- 9 Graf dalam Rajah 5 menunjukkan pergerakan sebiji bola golf.

The graph in Diagram 5 shows the motion of a golf ball.



Rajah 5/Diagram 5

Berapakah ketinggian maksimum bola itu?

What is the maximum height of the ball?

- A 7 cm C 6 cm
B 6.5 cm D 5.5 cm

- 10 Jadual 1 menunjukkan kadar bayaran tempat letak kereta di sebuah pusat membeli-belah.
Table 1 shows the parking fee rate at a shopping mall.

Kadar bayaran tempat letak kereta Parking fee rate	
Isnin - Ahad Monday - Sunday	
Satu jam pertama atau sebahagian daripadanya First hour or part thereof	RM2.00
Setiap jam berikutnya atau sebahagian daripadanya Every subsequent hour or part thereof	RM1.00
Penalti kehilangan tiket Lost ticket penalty	RM50.00

Jadual 1/Table 1

Alia pergi ke pusat membeli-belah itu pada hari Selasa dan meletakkan kereta selama 5 jam 45 minit. Berapakah jumlah yang perlu dibayar oleh Alia?

Alia went to the shopping mall on Tuesday and parked her car for 5 hours and 45 minutes. How much does Alia have to pay?

- A RM6.00 C RM8.00
B RM7.00 D RM9.00