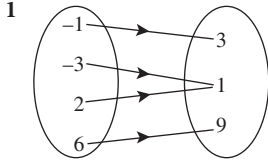


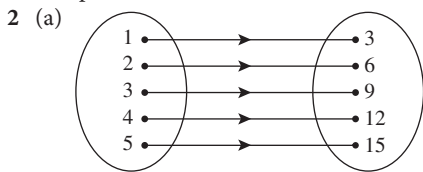
PENYELESAIAN LENGKAP

PRAKTIS 8

Praktis Formatif



Jawapan/Answer: C



- (b) Satu/One, satu/one
 (c) (i) {1, 2, 3, 4, 5}
 (ii) {3, 6, 9, 12, 15}
- 3 (a) Hubungan antara set A dengan set B adalah bukan suatu fungsi.
The relation between set A and set B is not a function.
 (b) Unsur 9 dalam set A mempunyai dua unsur 8 dan 10 dalam set B.
Element 9 in set A has two elements 8 and 10 in set B.
- 4 (a) Fungsi, setiap nilai x mempunyai hanya satu nilai y .
A function, each value of x has only one value of y .
 (b) Bukan fungsi, 1 mempunyai dua nilai 1 dan 4.
Not a function, 1 has two values 1 and 4.
- 5 Ya, setiap nilai x mempunyai hanya satu nilai y .
Yes, each value of x has only one value of y .
- 6 (a) $\{(0, 1), (1, 3), (2, 5), (3, 7)\}$
 Fungsi, setiap nilai x mempunyai hanya satu nilai y .
A function, each value of x has only one value of y .
 (b) $\{(0, 0), (1, 2), (1, -2), (4, 4)\}$
 Bukan fungsi, nilai $x = 1$ mempunyai dua nilai $y = 2$ dan $y = -2$.
Not a function, the value of $x = 1$ has two values of $y = 2$ and $y = -2$.

- 7 (a) $\{(3, 0), (1, 3), (4, 1), (8, 4)\}$
 (b) $\{(5, 2), (2, 5), (4, 2), (6, 6)\}$
 (c)

x	-1	1	3	5
y	6	0	2	-3

 (d)

x	-2	0	2	4
y	5	1	4	1
- Fungsi satu kepada satu.
One-to-one function.
- Fungsi banyak kepada satu.
Many-to-one function.

- 8 (a) Fungsi satu kepada satu
One-to-one function
 (b) Fungsi banyak kepada satu
Many-to-one function

9 Apabila/When $x = -1$,
 $y = 3(-1)^2 - 1$
 $= 3 - 1$
 $= 2$

Apabila/When $x = 0$,
 $y = 3(0)^2 - 1$
 $= 0 - 1$
 $= -1$

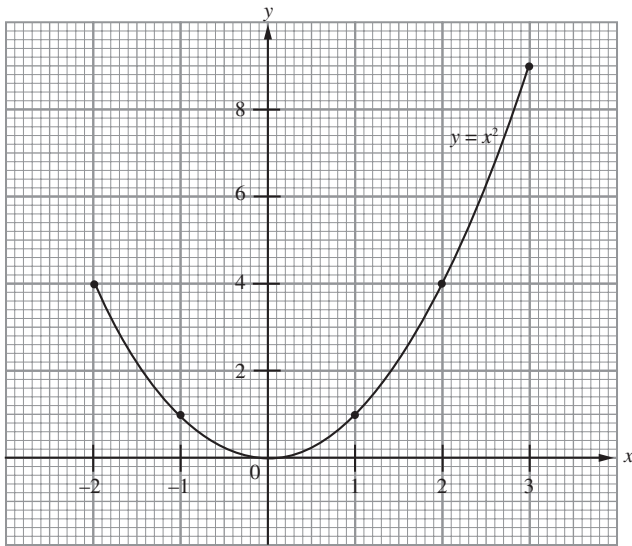
Apabila/When $x = 1$,
 $y = 3(1)^2 - 1$
 $= 3 - 1$
 $= 2$

Jawapan/Answer: B

- 10 (a) $y = 4x + 9$
 (b) $y = x^2 + 3x$

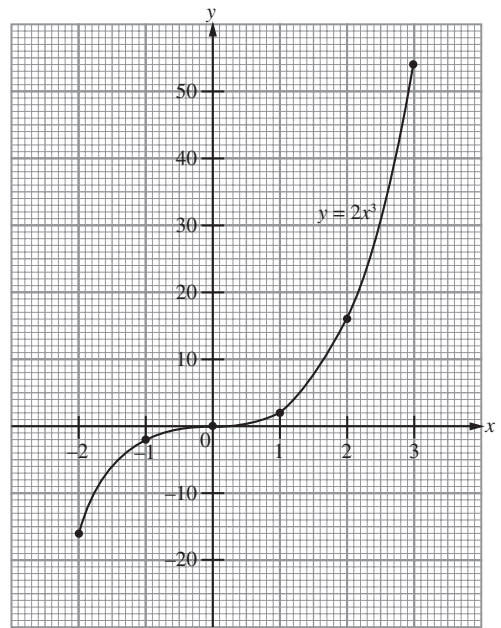
11 (a)

x	-2	-1	0	1	2	3
y	4	1	0	1	4	9



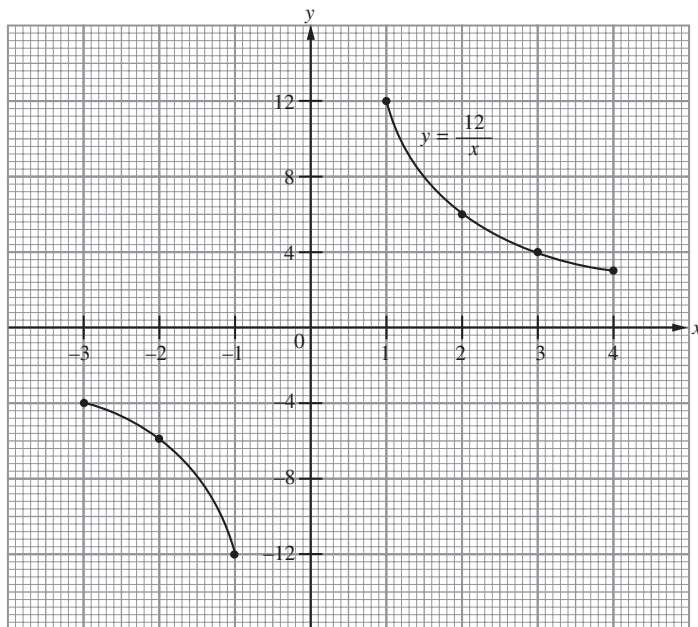
(b)

x	-2	-1	0	1	2	3
y	-16	-2	0	2	16	54



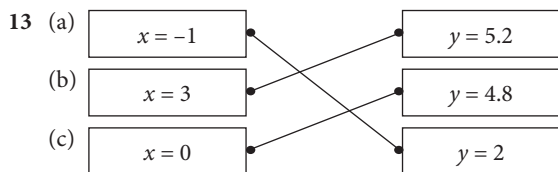
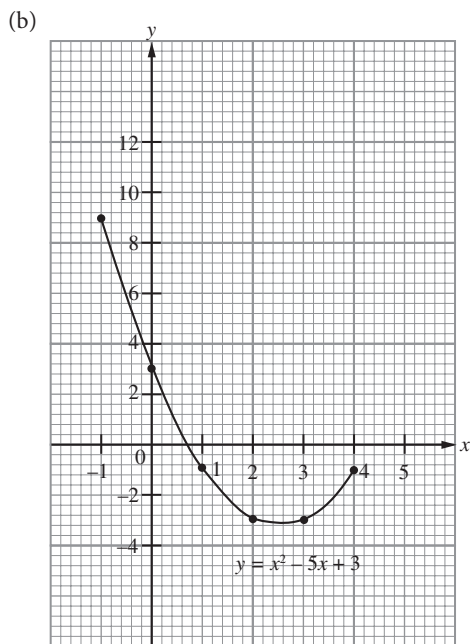
(c)

x	-3	-2	-1	1	2	3	4
y	-4	-6	-12	12	6	4	3



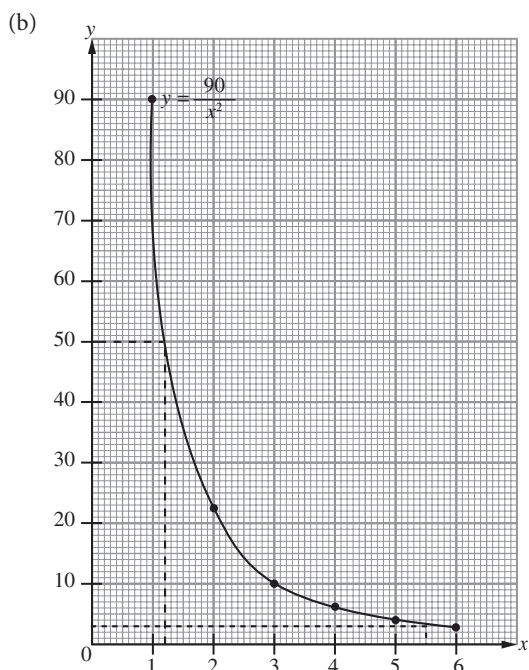
12 (a)

x	-1	0	1	2	3	4
y	9	3	-1	-3	-3	-1



14 (a)

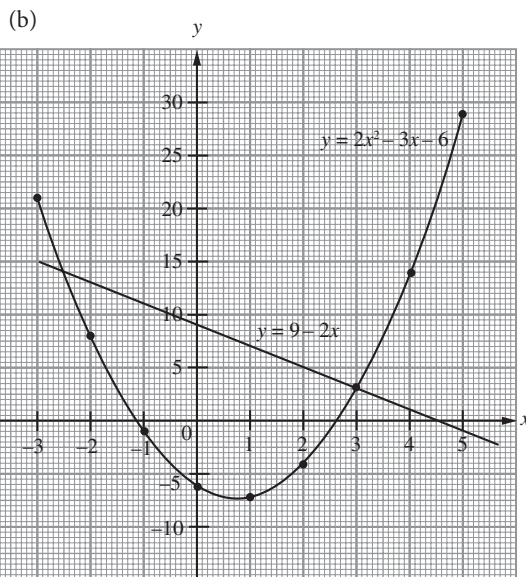
x	2	3	5	6
y	22.5	10	3.6	2.5



(c) (i) $y = 3$ (ii) $x = 1.2$

15 (a)

x	-2	-1	2	3
y	8	-1	-4	3



(c) $y = 2x^2 - 3x - 6 \dots\dots ①$
 $2x^2 - x - 15 = 0 \dots\dots ②$
 Daripada/From ②,
 $2x^2 = x + 15$
 $y = (x + 15) - 3x - 6$
 $y = 9 - 2x$
 $x = -2.5, x = 3$

Praktis Sumatif

- 1 Apabila/When $x = -3$,
 $y = (-3)^2 - 5(-3) + 9$
 $= 9 + 15 + 9$
 $= 33$
 Jawapan/Answer: D
- 2 A $y = 3 - 2x^2$
 Apabila/When $x = -1$,
 $y = 3 - 2(-1)^2$
 $= 3 - 2$
 $= 1$
 Apabila/When $x = 0$,
 $y = 3 - 2(0)^2$
 $= 3 - 0$
 $= 3$
 Apabila/When $x = 1$,
 $y = 3 - 2(1)^2$
 $= 3 - 2$
 $= 1$
 Apabila/When $x = 2$,
 $y = 3 - 2(2)^2$
 $= 3 - 8$
 $= -5$

Apabila/When $x = 3$,
 $y = 3 - 2(3)^2$
 $= 3 - 18$
 $= -15$

B $y = 3 + x - x^2$
 Apabila/When $x = -1$,
 $y = 3 + (-1) - (-1)^2$
 $= 3 - 1 - 1$
 $= 1$

Apabila/When $x = 0$,
 $y = 3 + 0 - 0^2$
 $= 3$

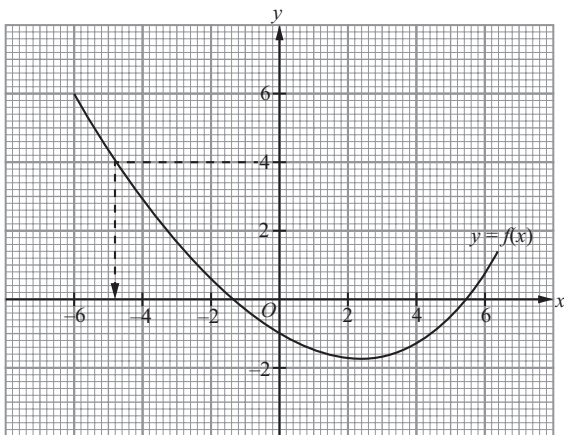
Apabila/When $x = 1$,
 $y = 3 + 1 - 1^2$
 $= 3 + 1 - 1$
 $= 3$
 $\neq 1$

C $y = 2x^2 - 4x + 3$
 Apabila/When $x = -1$,
 $y = 2(-1)^2 - 4(-1) + 3$
 $= 2 + 4 + 3$
 $= 9$
 $\neq 1$

D $y = 3 + 2x - 4x^2$
 Apabila/When $x = -1$,
 $y = 3 + 2(-1) - 4(-1)^2$
 $= 3 - 2 - 4$
 $= -3$
 $\neq 1$

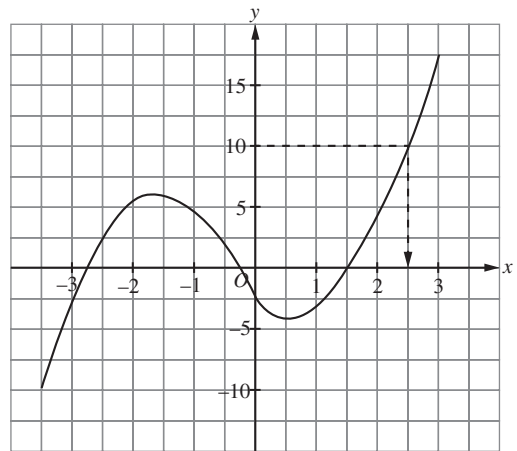
Jawapan/Answer: A

3



Apabila/When $y = 4$, $k = -4.8$
 Jawapan/Answer: A

4



Apabila/When $y = 10$, $x = 2.5$

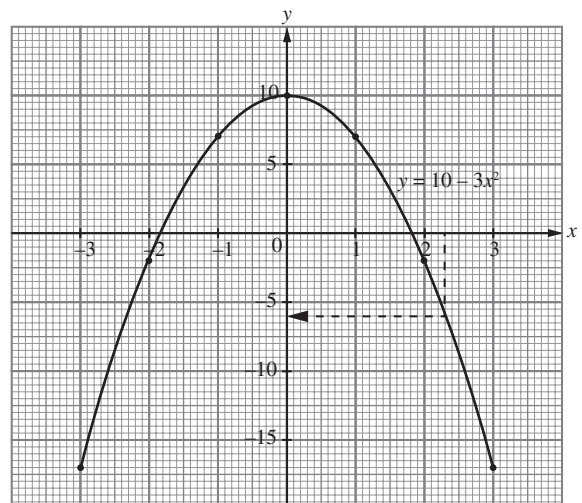
Jawapan/Answer: D

- 5 (a) Fungsi, setiap nilai x mempunyai hanya satu nilai y .
A function, each value of x has only one value of y .
 (b) Bukan fungsi, 3 ialah nombor perdana dan nombor ganjil.
Not a function, 3 is a prime number and an odd number.
 (c) Fungsi, setiap nilai x mempunyai hanya satu nilai y .
A function, each value of x has only one value of y .

6 (a)

x	-3	-2	-1	0	1	2	3
y	-17	-2	7	10	7	-2	-17

(b)

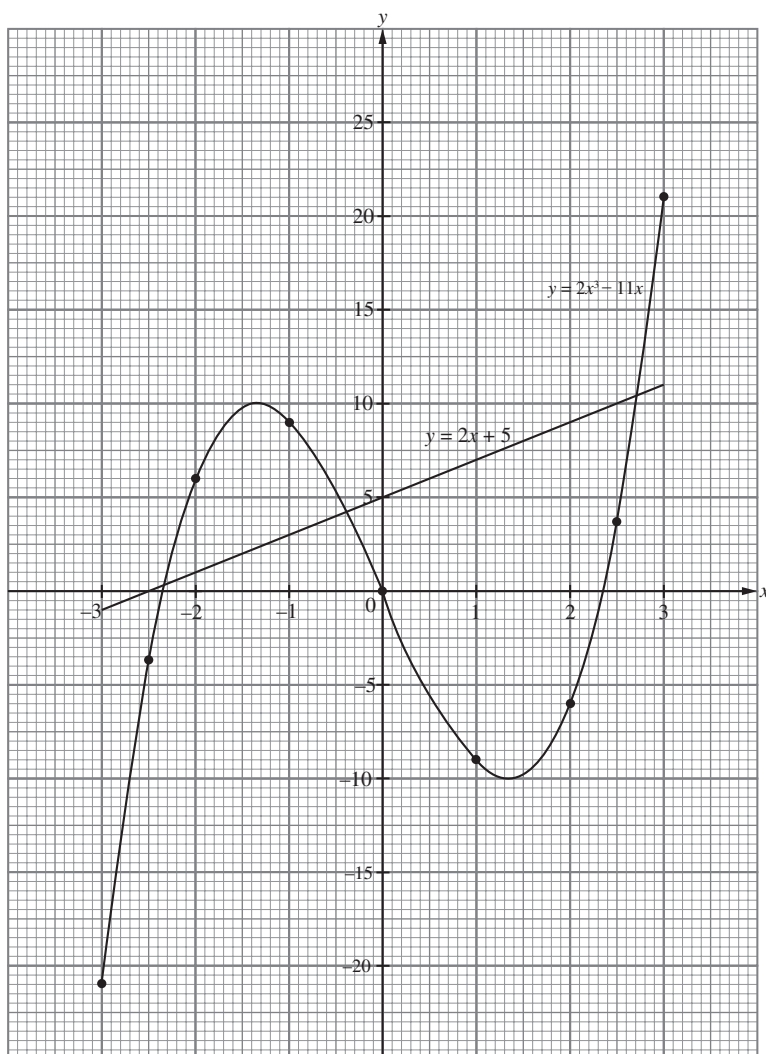


- (c) Daripada graf, apabila $x = 2.3$, $y = -6$,
From graph, when $x = 2.3$, $y = -6$,
 $y = 10 - 3x^2$
 $-6 = 10 - 3(2.3^2)$
 $3(2.3^2) = 16$
 $2.3^2 = \frac{16}{3}$

7 (a)

x	-3	-2.5	-2	-1	0	1	2	2.5	3
y	-21	-3.75	6	9	0	-9	-6	3.75	21

(b)



(c)

$$y = 2x^3 - 11x$$

$$2x^3 = y + 11x$$

$$2x^3 - 13x = 5$$

$$y + 11x - 13x = 5$$

$$y = 2x + 5$$

Daripada graf, $x = -2.35, -0.35, 2.7$.
 From graph, $x = -2.35, -0.35, 2.7$.