

Jawapan

Praktis 1

Praktis Formatif

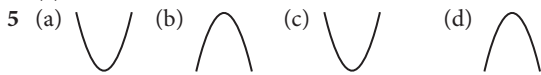
1.1 Fungsi dan Persamaan Kuadratik Quadratic Functions and Equations

1	Ungkapan Expression	Kuasa pemboleh ubah tertinggi = 2 Highest power of the variable = 2 (✓/✗)	Bilangan pemboleh ubah = 1 Number of variable = 1 (✓/✗)	Ungkapan kuadratik dalam satu pemboleh ubah (ya/tidak) Quadratic expression in one variable (yes/no)	Justifikasi (jika tidak) Justification (If no)
(a)	$-a^2 + 5$	✓	✓	Ya Yes	
(b)	$x^2 - 3y + 2$	✓	✗	Tidak No	Terdapat 2 pemboleh ubah. There are 2 variables.
(c)	$-\frac{1}{3}r^2$	✓	✓	Ya Yes	
(d)	$b^3 - 5b$	✗	✓	Ya Yes	Kuasa tertinggi ialah 3 bukan 2. The highest power is 3 not 2.
(e)	$\frac{1}{c^2} + 3c - 4$	✗	✓	Tidak No	Kuasa tertinggi ialah 1 bukan 2. The highest power is 1 not 2.
(f)	$\frac{1}{d^2} + 4d - 5$	✗	✓	Tidak No	Kuasa tertinggi ialah 1 bukan 2. The highest power is 1 not 2
(g)	$p(p + 3)$	✓	✓	Ya Yes	
(h)	$-e^2 + \frac{1}{3}e - 5$	✓	✓	Ya Yes	
(i)	$-f^2 + 2f^{-2}$	✓	✓	Tidak No	Terdapat kuasa yang bukan nombor bulat. There is power which is not a whole number.

- e
- 2 (a) Ya. Sebab terdapat satu pemboleh ubah, x sahaja dan kuasa tertinggi bagi x ialah 2.
Yes. Because there is only one variable, x and the highest power of x is 2.
- (b) Bukan. Sebab kuasa tertinggi bagi n ialah 3.
No. Because the highest power of n is 3.
- (c) Bukan. Sebab kuasa tertinggi bagi t ialah -2 bukan 2.
No. Because the highest power of t is -2 not 2.

	Ungkapan kuadratik Quadratic Expression	a	b	c
3 (a)	$3h^2 - 4h + 2$	3	-4	2
(b)	$k^2 - 5k$	1	-5	0
(c)	$-2t^2 - 3$	-2	0	-3
(d)	$-\frac{1}{4}q^2 + 7q$	$-\frac{1}{4}$	7	0
(e)	$1 - 2n - 4n^2$	-4	-2	1

- 4 (a) $4x^2 - 12x + 9$
 (b) $2x^2 - x - 3$
 (c) $6t^2 - 9t - 6$



- 6 (a) Persamaan paksi simetri ialah $x = \frac{1+4}{2}$
 $x = 2.5$.
 Equation of axis of symmetry is $x = \frac{1+4}{2}$
 $x = 2.5$.

- (b) Apabila/When $x = 2.5$,
 $y = 2.5^2 - 5(2.5) + 4$
 $= -2.25$
 Koordinat titik minimum ialah $(2.5, -2.25)$.
 The coordinates of the minimum point is $(2.5, -2.25)$.

- 7 (a) 2
 (b) $(0, 5)$ dan/and $(4, 5)$
 (c) Dua objek mempunyai imej yang sama, oleh itu hubungan banyak kepada satu.
 Two objects have the same image, therefore many-to-one relation.
 (d) $x = 2$
 (e) $(2, 1)$

- 8 (a) (i) Persamaan paksi simetri ialah $x = \frac{-2+3}{2}$
 $x = 0.5$
 Equation of axis of symmetry is $x = \frac{-2+3}{2}$
 $x = 0.5$.

- (ii) Koordinat titik maksimum ialah $(0.5, 6.25)$.
 The coordinates of the maximum point is $(0.5, 6.25)$.

- (b) (i) Persamaan paksi simetri ialah $x = \frac{1+3}{2}$
 $x = 2$
 Equation of axis of symmetry is $x = \frac{1+3}{2}$
 $x = 2$

- (ii) koordinat titik maksimum ialah $(2, -1)$.
 The coordinates of the maximum point is $(2, -1)$.

- 9 Oleh sebab graf $f(x) = px^2$ adalah paling lebar dan graf $f(x) = rx^2$ adalah paling sempit, maka nilai $p < q < r$.
 As the graph of $f(x) = px^2$ is the widest and the graph of $f(x) = rx^2$ is the narrowest, the values of p, q, r are such that $p < q < r$.

- 10 (a) $2 = (1)^2 - 4(1) + c$
 $c = 5$
 (b) $8 = (-2)^2 - 4(-2) + c$
 $c = -4$

- 11 Graf 1, 2 dan 3 menunjukkan graf fungsi kuadratik dengan $a > 0$ dan nilai a bagi graf 3 > nilai a bagi graf 2 > nilai a bagi graf 1. Apabila nilai a semakin besar, graf itu mempunyai bentuk parabola semakin sempit. Nilai b dan c masing-masing sama dengan sifar sebab paksi simetri dan pintasan-y untuk ketiga-tiga graf itu ialah paksi-y dan 0.

Graphs 1, 2 and 3 show quadratic function graphs with $a > 0$ and value of a for graph 3 > value of a for graph 2 > value of a for graph 1. The greater the value of a , the graph has the narrower parabola shape. Values of b and c are zero respectively because the axes of symmetry and y -intercepts of all the three graphs are y -axis and 0.

- 12 (a) $p = 1$
 (b) $9 = q + 4(2) - (1)(2)^2$
 $q = 5$

- (c) Jika graf itu dipantulkan pada paksi-x, graf berbentuk minimum akan diperoleh.

When the graph is reflected in the x -axis, a minimum graph will be obtained.

$$f(x) = -(-x^2 + 4x + 5)$$

$$f(x) = x^2 - 4x - 5$$

- (d) Nilai a dan c akan kekal tidak berubah dan nilai b akan bertukar tanda daripada positif kepada negatif dan sebaliknya.

The values of a and c remain unchanged and the value of b will change sign from positive to negative and vice versa.

- 13 (a) $f(x) = \frac{1}{2}(2x+5)(4x-9)$

(b) $f(x) = \frac{1}{2}(2x+5)(4x-9) = 16.5$

$$(2x+5)(4x-9) = 33$$

$$8x^2 + 2x - 45 = 33$$

$$8x^2 + 2x - 78 = 0$$

$$4x^2 + x - 39 = 0$$

- 14 (a) $f(x) = (x+2)(x-6)$

(b) $f(x) = (x+2)(x-6) = 2x+4$

$$x^2 - 4x - 12 = 2x + 4$$

$$x^2 - 6x - 16 = 0$$

- 15 (a) Umur Azmi sekarang/Azmi's age now = x

Umur Amran sekarang/Amran's age now = $x + 3$

5 tahun yang lepas/5 years ago:

Umur Azmi /Azmi's age = $x - 5$

Umur Amran/Amran's age = $x - 2$

$$f(x) = (x-5)(x-2)$$

$$f(x) = x^2 - 7x + 10$$

- (b) $f(x) = x^2 - 7x + 10 = 40$

$$x^2 - 7x - 30 = 0$$

- 16 $x^2 + (x - 7)^2 = (x + 1)^2$
 $x^2 + x^2 - 14x + 49 = x^2 + 2x + 1$
 $x^2 - 16x + 48 = 0$
- 17 (a) $V(w) = 5w(w + 3)$ atau/ or $5w^2 + 15w$
 (b) $5w^2 + 15w = 90$
 $w^2 + 3w - 18 = 0$
- 18 (a) $h(x) = x(x - 5) + (3x + 4)(x - 7)$
 $= x^2 - 5x + 3x^2 - 21x + 4x - 28$
 $= 4x^2 - 22x - 28$
 (b) $4x^2 - 22x - 28 = 2$
 $4x^2 - 22x - 80 = 0$
 $2x^2 - 11x - 40 = 0$
- 19 (a) $(-4)^2 + 3(-4) - 4 = 16 - 12 - 4$
 $= 0 =$ (Sebelah kanan/Right hand side)
 Maka, $x = -4$ memuaskan persamaan kuadrat itu.
 $x = -4$ ialah puncanya.
 Therefore, $x = -4$ satisfies the quadratic equation.
 $x = -4$ is its root.
 (b) $(-1)^2 + 3(-1) - 4 = 1 - 3 - 4$
 $= -6 \neq$ (Sebelah kanan/Right hand side)
 Maka, $x = -1$ tidak memuaskan persamaan kuadrat itu. $x = -1$ bukan puncanya.
 Therefore, $x = -1$ does not satisfy the quadratic equation. $x = -1$ is not its root.
 (c) $(1)^2 + 3(1) - 4 = 1 + 3 - 4$
 $= 0 =$ (Sebelah kanan/Right hand side)
 Maka, $x = 1$ memuaskan persamaan kuadrat itu.
 $x = 1$ ialah puncanya.
 Therefore, $x = 1$ satisfies the quadratic equation.
 $x = 1$ is its root.
- 20 (a) Sebelah kiri/Left hand side $= (-1)^2 - 2(-1)$
 $= 3$
 $=$ Sebelah kanan/Right hand side
 Maka, $x = -1$ memuaskan persamaan kuadrat itu.
 $x = -1$ ialah puncanya.
 Therefore, $x = -1$ satisfies the quadratic equation.
 $x = -1$ is its root.
 (b) Sebelah kiri/Left hand side $= (1)^2 - 2(1)$
 $= -1$
 \neq Sebelah kanan/Right hand side
 Maka, $x = 1$ tidak memuaskan persamaan kuadrat itu. $x = 1$ bukan puncanya.
 Therefore, $x = 1$ does not satisfy the quadratic equation. $x = 1$ is not its root.
 (c) Sebelah kiri/Left hand side $= (3)^2 - 2(3)$
 $= 3$
 $=$ Sebelah kanan/Right hand side
 Maka, $x = 3$ memuaskan persamaan kuadrat itu.
 $x = 3$ ialah puncanya.
 Therefore, $x = 3$ satisfies the quadratic equation.
 $x = 3$ is its root.

- 21 Punca-punca bagi persamaan kuadrat ialah pintasan- x , iaitu apabila $f(x) = 0$, maka $x = -2$ atau $x = 3$.
 Roots of quadratic equation are the x -intercepts of quadratic function when $f(x) = 0$, therefore, $x = -2$ or $x = 3$.
- 22 (a) $x = -2, x = 2$
 (b) $x = 4, x = 5$
 (c) $x = -1, x = 3$
- 23 (a) Sebab 2 dan 4 memuaskan $f(x) = 0$
 Because 2 and 4 satisfy $f(x) = 0$
 (b) $(x - 2)$ dan/and $(x - 4)$
 (c) $f(x) = (x - 2)(x - 4)$
 $f(x) = x^2 - 6x + 8$
- 24 (a) $x^2 - 3x = 0$
 $x(x - 3) = 0$
 $x = 0$ atau/ or $(x - 3) = 0$
 $x = 0$ atau/ or $x = 3$
 (b) $x^2 - 2x - 15 = 0$
 $(x + 3)(x - 5) = 0$
 $(x + 3) = 0$ atau/ or $(x - 5) = 0$
 $x = -3$ atau/ or $x = 5$
 (c) $3x^2 + 23x - 8 = 0$
 $(3x - 1)(x + 8) = 0$
 $(3x - 1) = 0$ atau/ or $(x + 8) = 0$
 $x = \frac{1}{3}$ atau/ or $x = -8$
 (d) $4n^2 - 49 = 0$
 $(2n + 7)(2n - 7) = 0$
 $n = -\frac{7}{2}$ atau/ or $n = \frac{7}{2}$
 (e) $3n^2 = 10n - 8$
 $3n^2 - 10n + 8 = 0$ ←
 $(3n - 4)(n - 2) = 0$
 $n = \frac{4}{3}$ atau/ or $n = 2$
- 25 (a) $x^2 - \frac{5}{2}x = \frac{3}{2}$
 $2x^2 - 5x - 3 = 0$
 $(2x + 1)(x - 3) = 0$
 $x = -\frac{1}{2}$ atau/ or $x = 3$
 (b) $\frac{1}{16}a^2 - 25 = 0$
 $\left(\frac{1}{4}a - 5\right)\left(\frac{1}{4}a + 5\right) = 0$
 $a = 20$ atau/ or $a = -20$
 (c) $6h^2 - 19h = -15$
 $6h^2 - 19h + 15 = 0$
 $(2h - 3)(3h - 5) = 0$
 $h = \frac{3}{2}$ atau/ or $h = \frac{5}{3}$

Tulis dalam bentuk am dahulu.
 Write in general form first.

Bahagi dengan faktor sepunya.
 Divide with common factor.

(d) $8q^2 + 18q - 5 = 0$
 $(4q - 1)(2q + 5) = 0$
 $q = \frac{1}{4}$ atau/or $q = -\frac{5}{2}$

(e) $m + 5 = \frac{6}{m}$
 $m^2 + 5m - 6 = 0$
 $(m - 1)(m + 6) = 0$
 $m = 1$ atau/or $m = -6$

(f) $r + 2 = \frac{28}{r - 1}$
 $(r + 2)(r - 1) = 28$
 $r^2 + r - 30 = 0$
 $(r + 6)(r - 5) = 0$
 $r = -6$ atau/or $r = 5$

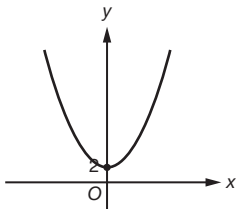
(g) $k - 1 = \frac{(k + 20)}{6k}$

$6k(k - 1) = k + 20$
 $6k^2 - 7k - 20 = 0$
 $(2k - 5)(3k + 4) = 0$
 $k = \frac{5}{2}$ atau/or $k = -\frac{4}{3}$

(h) $n(n - 5) = 6$
 $n^2 - 5n - 6 = 0$
 $(n + 1)(n - 6) = 0$
 $n = -1$ atau/or $n = 6$

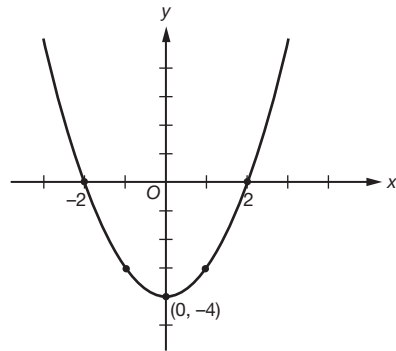
(i) $\frac{(h^2 - 1)}{5} - \frac{h}{6} = 0$
 $6(h^2 - 1) - 5h = 0$
 $6h^2 - 5h - 6 = 0$
 $(3h + 2)(2h - 3) = 0$
 $h = -\frac{2}{3}$ atau/or $h = \frac{3}{2}$

- 26 (a) $f(x) = x^2 + 2$
 Nilai/value of $a = 1$, bentuk graf /shape \cup ,
 Nilai/value of $b = 0$, paksi simetri ialah paksi-y/axis
 of symmetry is y-axis.
 Nilai/value of $c = 2$, pintasan-y/y-intercept = 2
 Maka, titik minimum ialah (0, 2).
 Therefore, the minimum point is (0, 2).

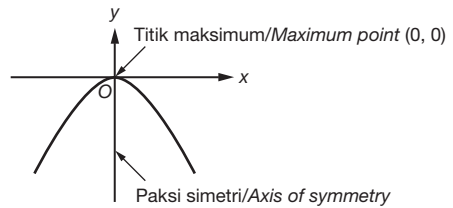


- (b) $f(x) = x^2 - 4$
 Nilai/value of $a = 1$, bentuk graf /shape \cup ,
 Nilai/value of $b = 0$, paksi simetri ialah paksi-y/axis
 of symmetry is y-axis.
 Nilai/value of $c = -4$, pintasan-y/y-intercept = -4
 Maka, titik minimum ialah (0, -4).
 Therefore, the minimum point is (0, -4).

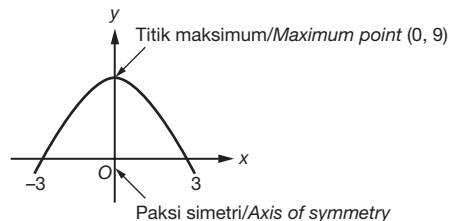
Apabila/when $f(x) = 0$
 $x^2 - 4 = 0$
 $(x + 2)(x - 2) = 0$
 $x = -2$ atau/or $x = 2$



- (c) $f(x) = -x^2$
 Nilai/value of $a = -1$, bentuk graf/shape \cap ,
 Nilai/value of $b = 0$, paksi simetri ialah paksi-y/axis
 of symmetry is y-axis.
 Nilai/value of $c = 0$, pintasan-y/y-intercept = 0
 Maka, titik maksimum ialah (0, 0).
 Therefore, the maximum point is (0, 0).



- (d) $f(x) = -x^2 + 9$
 Nilai/value of $a = -1$, bentuk graf/shape \cap ,
 Nilai/value of $b = 0$, paksi simetri ialah paksi-y/axis
 of symmetry is y-axis.
 Nilai/value of $c = 9$, pintasan-y/y-intercept = 9
 Maka, titik maksimum ialah (0, 9).
 Therefore, the maximum point is (0, 9).
 Apabila/when $f(x) = 0$
 $9 - x^2 = 0$
 $(3 + x)(3 - x) = 0$
 $x = -3$ atau/or $x = 3$



- (e) $f(x) = x^2 + 5x - 6$
 Nilai/value of $a = 1$, bentuk graf /shape \cup ,
 Nilai/value of $b = 5$, paksi simetri ialah/axis of
 symmetry is $x = -\frac{b}{2a} = -\frac{5}{2(1)} = -2.5$
 Nilai/value of $c = -6$, pintasan-y/y-intercept = -6

Apabila/When $f(x) = 0$

$$x^2 + 5x - 6 = 0$$

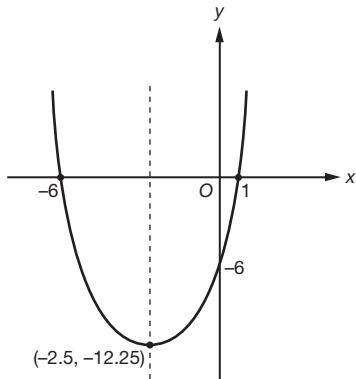
$$(x + 6)(x - 1) = 0$$

$$x = -6 \text{ atau/or } x = 1$$

Apabila/When $x = -2.5$, $y = (-2.5)^2 + 5(-2.5) - 6 = -12.25$

Maka, titik minimum ialah $(-2.5, -12.25)$.

Therefore, the minimum point is $(-2.5, -12.25)$.



(f) $f(x) = x^2 - x - 2$

Nilai/value of $a = 1$, bentuk graf /shape \cup ,

Nilai/value of $b = -1$, paksi simetri ialah/axis of

$$\text{symmetry is } x = -\frac{b}{2a} = -\frac{-1}{2(1)} = 0.5$$

Nilai/value of $c = -2$, pintasan-y/y-intercept = -2

Apabila/when $f(x) = 0$

$$x^2 - x - 2 = 0$$

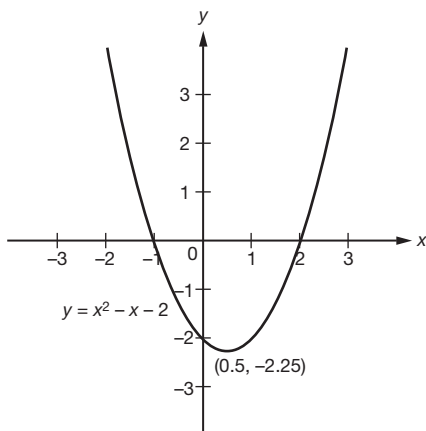
$$(x + 1)(x - 2) = 0$$

$$x = -1 \text{ atau/or } x = 2$$

Apabila/When $x = 0.5$, $y = (0.5)^2 - (0.5) - 2 = -2.25$

Maka, titik minimum ialah $(0.5, -2.25)$.

Therefore, the minimum point is $(0.5, -2.25)$.



(g) $f(x) = -x^2 - 2x + 15$

Nilai/value of $a = -1$, bentuk graf /shape \cap ,

Nilai/value of $b = -2$, paksi simetri ialah/axis of

$$\text{symmetry is } x = -\frac{b}{2a} = -\frac{-2}{2(-1)} = -1$$

Nilai/value of $c = 15$, pintasan-y/y-intercept = 15

Apabila/When $f(x) = 0$

$$x^2 + 2x - 15 = 0$$

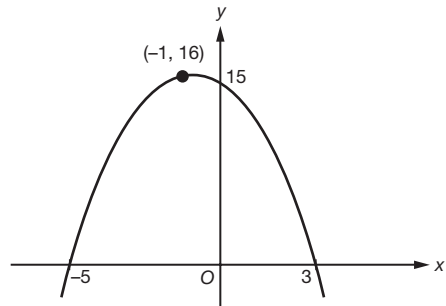
$$(x + 5)(x - 3) = 0$$

$$x = -5 \text{ atau/or } x = 3$$

Apabila/When $x = -1$, $y = -(-1)^2 - 2(-1) + 15 = 16$

Maka, titik maksimum ialah $(-1, 16)$.

Therefore, the maximum point is $(-1, 16)$.



(h) $f(x) = -2x^2 - 4x + 6$

Nilai/value of $a = -2$, bentuk graf /shape \cap ,

Nilai/value of $b = -4$, paksi simetri ialah/axis of

$$\text{symmetry is } x = -\frac{b}{2a} = -\frac{-4}{2(-2)} = -1$$

Nilai/value of $c = 6$, pintasan-y/y-intercept = 6

Apabila/When $f(x) = 0$

$$-2x^2 - 4x + 6 = 0$$

$$x^2 + 2x - 3 = 0$$

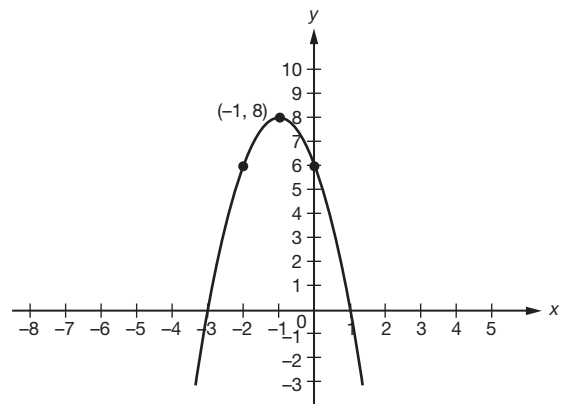
$$(x + 3)(x - 1) = 0$$

$$x = -3 \text{ atau/or } x = 1$$

Apabila/When $x = -1$, $y = -2(-1)^2 - 4(-1) + 6 = 8$

Maka, titik maksimum ialah $(-1, 8)$.

Therefore, the maximum point is $(-1, 8)$.



27 (a) $\frac{1}{2}x(x - 3) = 54$

$$x^2 - 3x - 108 = 0$$

(b) $(x - 12)(x + 9) = 0$

$$x = 12$$

(c) Tinggi/Height = $12 - 3 = 9$ cm

28 (a) $x(110 - x) = 3\,000$

$$x^2 - 110x + 3\,000 = 0$$

(b) $(x - 50)(x - 60) = 0$

$$x = 50 \text{ atau/or } x = 60$$

(c) Panjang/Length = 60 cm, Lebar/Width = 50 cm

- 29 (a) $x(x + 8) = 209$
 $x^2 + 8x - 209 = 0$
 (b) $(x - 11)(x + 19) = 0$
 $x = 11$
 (c) Perimeter = $[11 + (8 + 11)] \times 2 = 60$ cm
- 30 (a) $\frac{1}{2}[2t + 1 + 4t - 2](3t) = 138$
 $(6t - 1)3t = 276$
 $18t^2 - 3t - 276 = 0$
 $6t^2 - t - 92 = 0$
 (b) $(6t + 23)(t - 4) = 0$
 $t = 4$
 (c) Panjang tepi sendeng/the length of slanting edge
 $= \sqrt{(5^2 + 12^2)} = 13$ cm
 Perimeter = $2(4) + 1 + 3(4) + 4(4) - 2 + 13$
 $= 48$ cm
- 31 (a) $\frac{120}{(x - 2)} - \frac{120}{x} = 5$
 $120x - 120(x - 2) = 5x(x - 2) - 10x$
 $5x^2 - 10x - 240 = 0$
 $x^2 - 2x - 48 = 0$
 (b) $(x + 6)(x - 8) = 0$
 $x = 8$
 (c) Apabila/When $x = 8$,
 bayaran setiap orang/payment of each person
 $= \frac{\text{RM}120}{8} = \text{RM}15$
 jimat/save RM3, setiap orang bayar/each of them
 pay RM12, maka/therefore
 $\frac{\text{RM}120}{\text{RM}12} = 10$
 $n = 10 - 8$
 $= 2$ orang lagi/more persons
- 32 (a) $\frac{120}{v} - \frac{120}{v + 20} = \frac{1}{2}$
 $240(v + 20) - 240v = v(v + 20)$
 $v^2 + 20v - 4800 = 0$
 (b) $(v - 60)(v + 80) = 0$
 $v = 60$

Praktis Sumatif

Kertas 1

- 1 C 2 A 3 D 4 A 5 A
 6 B 7 C 8 B 9 B

Kertas 2

Bahagian/Section A

- 1 (a) $v = 3 + 2t - t^2$
 Apabila/When $v = 0$
 $3 + 2t - t^2 = 0$
 $t^2 - 2t - 3 = 0$
 $(t + 1)(t - 3) = 0$
 $t = 3$ s
 (b) Apabila/When $v = 3$
 $3 + 2t - t^2 = 3$

$$2t - t^2 = 0$$

$$t(2 - t) = 0$$

$$t = 0 \text{ s or } t = 2 \text{ s}$$

(c) Paksi simetri/Axis of symmetry is $t = -\frac{b}{2a}$
 $= -\frac{2}{2(-1)}$
 $= 1$ s

2 $36x(x - 2) = 1728$
 $36x^2 - 72x - 1728 = 0$
 $x^2 - 2x - 48 = 0$
 $(x - 8)(x + 6) = 0$
 $x = 8$

3 (a) $x = \frac{-2 + 8}{2}$
 $x = 3$

(b) $f(x) = (x + 2)(x - 8)$
 $= x^2 - 6x - 16$
 $= (x - 3)^2 - 9 - 16$
 $= (x - 3)^2 - 25$
 $p = 3, q = 25$

(c) $f(x) = (x - 3)^2 - 25$
 Koordinat titik minimum ialah/Coordinates of the minimum point is $(3, -25)$.

Bahagian B/Section B

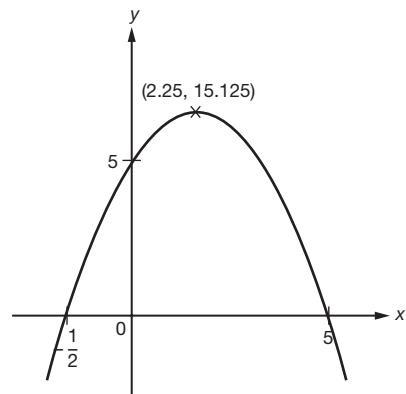
4 (a) $f(x) = -2x^2 + 9x + 5$
 $= -(2x^2 - 9x - 5)$
 $= -(2x + 1)(x - 5)$
 $-(2x + 1)(x - 5) = 0$
 $x = -\frac{1}{2}$ atau/or $x = 5$

(b) 5
 (c) Persamaan paksi simetri ialah $x = \frac{-\frac{1}{2} + 5}{2}$
 $x = 2.25$

Equation of axis of symmetry is $x = \frac{-\frac{1}{2} + 5}{2}$
 $x = 2.25$.

Apabila/When $x = 2.25$,
 $y = -2(2.25^2) + 9(2.25) + 5$
 $= 15.125$

Titik maksimum/Maximum point $(2.25, 15.125)$



5 (a) $(x + 3)(x + 4) = (2x + 2)(x + 1)$
 $x^2 + 7x + 12 = 2x^2 + 4x + 2$

$$x^2 - 3x - 10 = 0$$

(b) $(x + 2)(x - 5) = 0$

$$x = 5$$

(c) (i) Panjang segi empat tepat A/*Length of rectangle A*

$$= x + 4$$

$$= 5 + 4$$

$$= 9 \text{ cm}$$

Lebar segi empat tepat A/*Width of rectangle A*

$$= x + 3$$

$$= 5 + 3$$

$$= 8 \text{ cm}$$

(ii) Panjang segi empat tepat B/*Length of rectangle B*

$$= 2x + 2$$

$$= 10 + 2$$

$$= 12 \text{ cm}$$

Lebar segi empat tepat B/*Width of rectangle B*

$$= x + 1$$

$$= 5 + 1$$

$$= 6 \text{ cm}$$

(iii) Perimeter segi empat tepat A/*Perimeter of rectangle A*

$$= 9 + 9 + 8 + 8$$

$$= 34 \text{ cm}$$

Perimeter segi empat tepat B/*Perimeter of rectangle B*

$$= 12 + 12 + 6 + 6$$

$$= 36 \text{ cm}$$

Beza perimeter/*Difference between perimeter*

$$= 36 \text{ cm} - 34 \text{ cm}$$

$$= 2 \text{ cm}$$

6 (a) (i) $a > 0$

(ii) $b < 0$

(iii) $c = 5$

(b) (i) 2

(ii) (1, 2), (3, 2)

(iii) Hubungan banyak kepada satu
Many to one relation