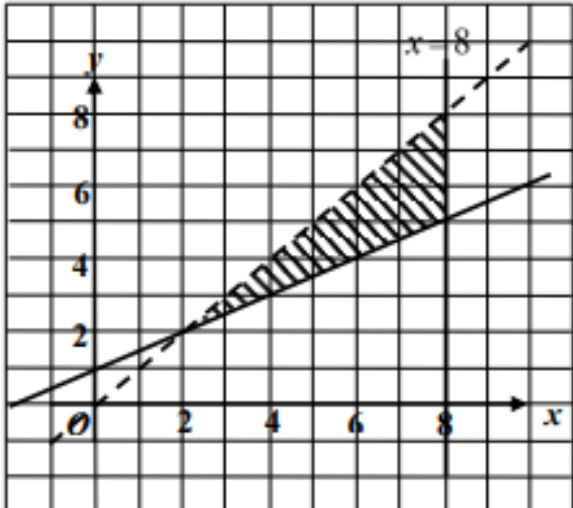
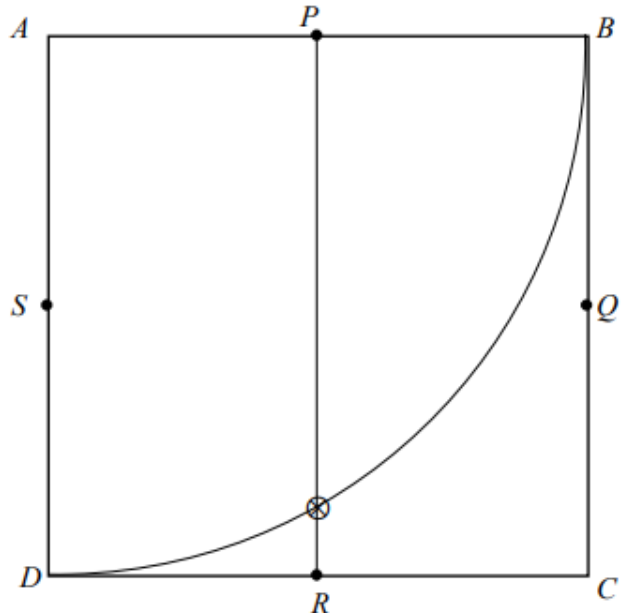


4.  Garis $x = 8$ dilukis Lorekkan betul	1 2
5. (a) SQ (b) (c) 	1 3
6. Jumlah pinjaman = RM $\left[135\,000 - \frac{12}{100} \times 135\,000\right]$ Kadar faedah = $\frac{2.75}{100} \times \text{RM } 118\,800 \times 9 \text{ tahun}$ Jumlah bayaran balik = RM $(118\,800 + 29\,403)$ Bayaran ansuran bulanan = RM 1372.25	1 1 1 1

7. $(1 \times 7^3) + (0 \times 7^2) + (5 \times 7^1) + (3 \times 7^0)$ <u>atau</u> setara <u>Nota:</u> Terima (1×7^3) <u>atau</u> (0×7^2) <u>atau</u> (5×7^1) <u>atau</u> (3×7^0) untuk 1m 381	2 1
8. (a) bukan pernyataan. (b) (i) 3 ialah faktor bagi 15 (ii) sah dan munasabah	1 1 1
9. (a) 9 (b) $\frac{12-2}{4}$ $\frac{5}{2}$ or 2.5 (c) $1.4 = \frac{28}{t}$ 20	1 1 1 1 1

10.	
(a) $0 - (-10) = 10$	2
(b) $m = -1$	1
$-10 = -1(5) + c$ <u>atau</u> $c = -5$	1
$y = -x - 5$	1

Section B

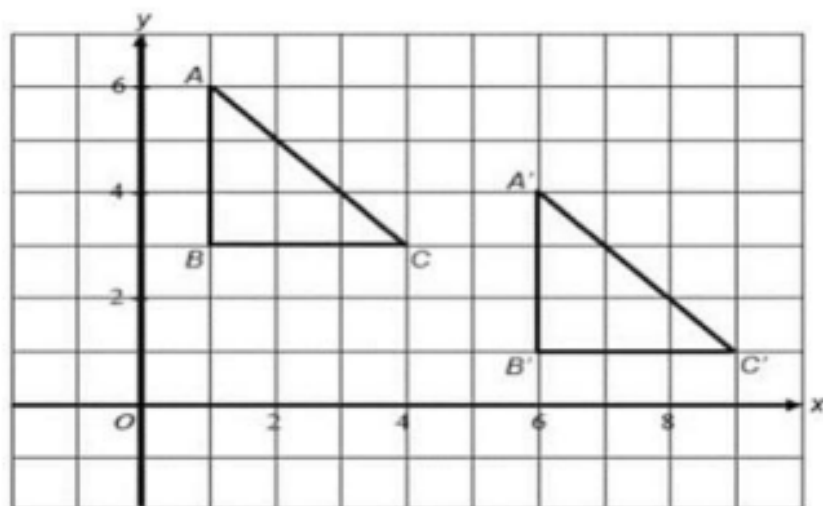
11.		
(a)	$p = -2$ $q = -6$	1m 1m
(b)	<u>Graph :</u> Axes drawn in correct directions with uniform scales for $-4 \leq x \leq 3$ All 7 points and *2 points correctly plotted or curve passes through all the points for $-4 \leq x \leq 3$. <u>Note:</u> 1. 8 or 7 points correctly plotted, award 1m 2. Ignore curve out of range. Smooth and continuous curve without any straight line passing through all 9 correct points using the given scales for $-4 \leq x \leq 3$	1m 2m 1m
(c)	(i) $-11.5 \leq y \leq -10.5$ (ii) $-3.25 \leq x \leq -3.15$, $1.65 \leq x \leq 1.75$	1m 2m

12.	(a)	Sisihan piawai Kerana sisihan piawai sesuai digunakan untuk membanding dua set data.	1m
(b)	Peserta A: $Min = \frac{8.4 + 9.5 + 7.2 + 9.9 + 9.8 + 8.7 + 9.4 + 8.9}{8} = 8.975$ Varians $= \frac{8.4^2 + 9.5^2 + 7.2^2 + 9.9^2 + 9.8^2 + 8.7^2 + 9.4^2 + 8.9^2}{8} - 8.975^2$ $= 0.694$ Sisihan Piawai, $\sigma = \sqrt{Varians} = \sqrt{0.694} = 0.833$ Peserta B: $Min = \frac{9.1 + 9.3 + 8.1 + 8.0 + 7.5 + 8.6 + 8.4 + 9.8}{8} = 8.6$ Varians $= \frac{9.1^2 + 9.3^2 + 8.1^2 + 8.0^2 + 7.5^2 + 8.6^2 + 8.4^2 + 9.8^2}{8} - 8.6^2$ $= 0.505$ Sisihan Piawai, $\sigma = \sqrt{Varians} = \sqrt{0.505} = 0.711$		1m
(c)	Pemenang ialah Peserta A kerana mempunyai nilai min yang lebih tinggi.		1m
	Peserta B lebih konsisten kerana nilai sisihan piawainya lebih rendah.		1m

14.	(a) $T = 4500 - 200 = 4300$ $U = 1000 + 550 + 600 = 2150$ $V = 4300 - 2250 - 2150 = -100$	1m 1m 1m
	(b) Aliran Tunai = Pendapatan Lebihan = - 100 = Aliran Negatif sebanyak RM100 Tidak Cepak Justifikasi: Perbelanjaan melebihi baki pendapatan	1m 1m 1m
	(c) Simpanan bulanan: $= \frac{30000}{3 \times 12} = RM\ 1\ 000$ Cadangan penambahbaikan: 1) Kurangkan perbelanjaan tidak tetap seperti kurangkan bil utiliti atau kurangkan simpanan melancong. 2) Tambah sumber pendapatan melalui kerja lebih masa atau pekerjaan sampingan.	1m 1m

15.

i)



K1

(i)

U : Pembesaran pada pusat K dengan faktor skala 2
Enlargement about the centre K with scale factor 2

P3

V : Putaran 90° ikut arah jam pada pusat $(6, 1)$
Rotation of 90° clockwise at the centre $(6, 1)$

P3

(ii)

$2^2 \times 60 - 60$ or equivalent

K2

180

N1

16. (a)

$$2x^2 + 3x - 20 = 0$$

$$(2x - 5)(x + 4) = 0$$

$$x = \frac{5}{2}, \quad x = -4 \text{ (abaikan)}$$

$$x \text{ ialah } \frac{5}{2} \text{ cm atau } 2.5 \text{ cm}$$

1
1
1
1

(b)

(a)

Markah / Marks	Kekerapan / Frequency	Titik tengah / Midpoint
0 – 9	0	4.5
10 – 19	5	14.5
20 – 29	4	24.5
30 – 39	2	34.5
40 – 49	4	44.5
50 – 59	7	54.5
60 – 69	6	64.5
70 – 79	7	74.5
80 – 89	5	84.5
90 – 99	0	94.5

3

(b) Min / Mean

$$(0 \times 4.5) + (5 \times 14.5) + (4 \times 24.5) + (2 \times 34.5) + (4 \times 44.5) + (7 \times 54.5) + (6 \times 64.5) + (7 \times 74.5) + (5 \times 84.5) + (0 \times 94.5)$$

$$40$$

$$= \frac{2130}{40}$$

$$= 53.25$$

1
1

(c)(i) Pendapatan Bercukai

$$\text{Penggajian} = \text{RM}5\,180 \times 12 = \text{RM}62\,160$$

$$\text{Jumlah Pelepasan} = \text{RM}9\,000 + \text{RM}3\,000 + \text{RM}2\,500 + \text{RM}4\,000 + \text{RM}3\,600 + \text{RM}2\,400 = \text{RM}24\,500$$

$$\text{Pendapatan Bercukai} = \text{RM}62\,160 - \text{RM}24\,500 = \text{RM}37\,660$$

1m
1m

$$\text{Cukai bagi RM}35\,000 \text{ pertama (Rujuk jadual)} = \text{RM}600$$

1m

$$\text{Cukai bagi baki seterusnya}$$

$$(\text{RM}37\,660 - \text{RM}35\,000) \times 8\%$$

$$\text{RM}212.80$$

1m

$$\text{Cukai pendapatan Encik Farhan}$$

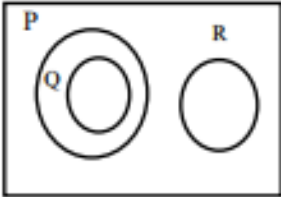
$$\text{RM}600 + \text{RM}212.80$$

$$\text{RM}812.80$$

1m

ii) Tidak layak

1m

17. (a) $3x + 10y = 340$ atau $3x + 15y = 480$ atau setara $-5y = -140$ atau $5y = 140$ $y = 28$ cm <u>ATAU</u> $3x + 10y = 340$ atau $3x + 15y = 480$ atau setara (K1) $x = \frac{340-10y}{3}$ atau $x = \frac{480-15y}{3}$ atau setara (K1) $y = 28$ cm (N1)	K1 K1 N1
(b) $4x+10$ atau $2x+18$ atau setara $2x = 8$ $x = 4$	2 1 1
(c)  	1 1 1
(d) $\frac{300}{360} \times 2 \times \frac{22}{7} \times 14$ <u>atau</u> setara $73\frac{1}{3}$ <u>atau</u> 73.33 <u>atau</u> $\frac{220}{3}$	1 1
$\left(\frac{300}{360} \times \frac{22}{7} \times 14^2\right)$ <u>atau</u> $\left(\frac{180}{360} \times \frac{22}{7} \times 7^2\right)$ <u>atau</u> setara $\left(\frac{300}{360} \times \frac{22}{7} \times 14^2\right) - \left(\frac{180}{360} \times \frac{22}{7} \times 7^2\right)$	1 1
$436\frac{1}{3}$ <u>atau</u> 436.33 <u>atau</u> $\frac{1309}{3}$	1

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Paper 1

1	B	11	B	21	D	31	B
2	D	12	B	22	A	32	B
3	A	13	D	23	D	33	A
4	B	14	C	24	D	34	D
5	B	15	D	25	C	35	C
6	B	16	C	26	C	36	A
7	A	17	D	27	A	37	D
8	D	18	C	28	D	38	D
9	A	19	B	29	B	39	C
10	D	20	B	30	C	40	A