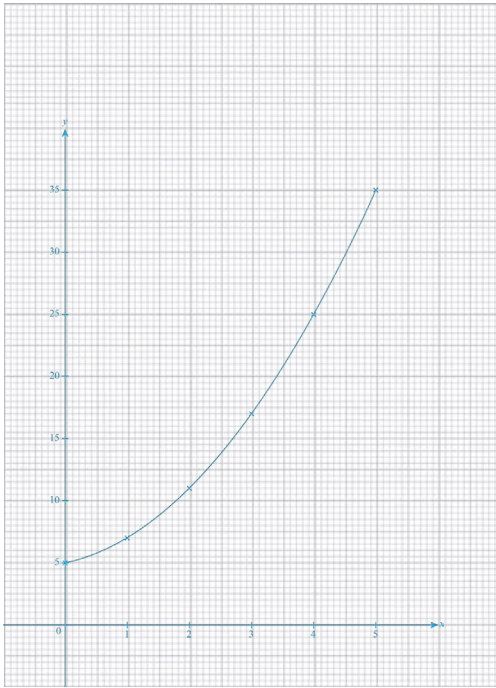


Jawapan/Answer:
(ii)



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(b) Rajah 9.1 menunjukkan lima set kotak putih dan hitam. Sebilangan bola dimasukkan ke dalam kotak putih dan hitam mengikut turutan nombor tertentu.
Diagram 9.1 shows five sets of white and black boxes. A number of balls are put into the white and black boxes according to a certain number sequence.

| Kotak Box | | | | | | | | | | |
|----------------------------------|---|---|---|-----|---|----|-----|----|----|-----|
| Bilangan bola Number of balls | 1 | 6 | 5 | p | 9 | 24 | q | 48 | 17 | r |

Rajah 9.1
Diagram 9.1

Cari nilai-nilai p , q dan r .
Find the values of p , q and r . [3 markah] [3 marks]

Jawapan/Answer:
1, 5, 9, 13, 17, ... 6, 12, 24, 48, 96, ...
1, 5, 9, q , 17, ... 6, p , 24, 48, r , ...
 $p = 12$, $q = 13$, $r = 96$

(c) Rajah 9.2 menunjukkan tawaran oleh sebuah pusat kecergasan.
Diagram 9.2 shows the offer by a fitness centre.

| | |
|---|---|
| Pusat Kecergasan Gymmax Bayaran keahlian bulanan = RM60 Kelas kardio: RM15 per jam Kelas yoga: RM12 per jam | Gymmax Fitness Centre Monthly membership fee = RM60 Cardio class: RM15 per hour Yoga class: RM12 per hour |
|---|---|

Rajah 9.2
Diagram 9.2

(i) Pada suatu bulan tertentu, jumlah bayaran untuk Angeline ialah P . Jika dia menyertai x jam kelas kardio dan y jam kelas yoga, ungkapkan P dalam sebutan x dan y . [1 markah]
In a particular month, the total payment for Angeline is P . If she joined x hours of cardio class and y hours of yoga classes, express P in terms of x and y . [1 mark]

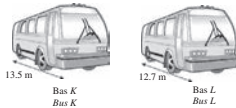
Jawapan/Answer:
 $P = 60 + 15x + 12y$

(ii) Dalam bulan Ogos, Angeline perlu membayar RM246. Jika dia menyertai 6 jam kelas kardio, berapa jam kelas yoga yang disertai?
In August, Angeline had to pay RM246. If she joined 6 hours of cardio class, how many hours of yoga classes that she joined? [2 markah]

Jawapan /Answer:
 $246 = 60 + 15(6) + 12y$
 $246 = 60 + 90 + 12y$
 $12y = 246 - 150$
 $= 96$
 $y = 8$
Angeline menyertai 8 jam kelas yoga.

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10. (a)



Rajah 10.1
Diagram 10.1

Rajah 10.1 menunjukkan dua buah bas.
Diagram 10.1 shows two buses.

(i) Bandingkan panjang kedua-dua bas itu dengan mengisi tempat kosong dengan nilai yang betul. [1 markah]
Compare the lengths of both buses by filling in the blanks with the correct values. [1 mark]

Jawapan/Answer:
 <

(ii) Jadual 10 menunjukkan bilangan penumpang bagi kedua-dua bas yang diwakili oleh x dan y .
Table 10 shows the number of passengers of both buses represented by x and y .

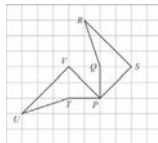
| Bas Bus | Bilangan penumpang Number of passengers |
|------------|--|
| K | $0 < x \leq 40$ |
| L | $0 < y < 35$ |

Jadual 10
Table 10

Berapakah bilangan maksimum penumpang bagi setiap bas itu? [2 markah]
What is the maximum number of passengers for each bus? [2 marks]

Jawapan/Answer:
 $x = 40$ $y = 34$

(b) Dalam Rajah 10.2, $PTUV$ ialah image $PQRS$ di bawah suatu penjelmaan.
In Diagram 10.2, $PTUV$ is the image of $PQRS$ under a transformation.



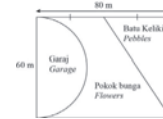
Rajah 10.2
Diagram 10.2

Huraikan selengkapnya penjelmaan itu. [3 markah]
Describe in full the transformation. [3 marks]

Jawapan/Answer:
Putaran 90° lawan arah jam pada pusat P

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(c) Rajah 10.3 menunjukkan sebidang tanah yang berukuran $80 \text{ m} \times 60 \text{ m}$. Kawasan yang berbentuk sembulatan digunakan sebagai garaj. Kawasan yang satu lagi ditanam dengan pokok bunga dan kawasan yang selebihnya diliputi dengan batu kelikir.
Diagram 10.3 shows a piece of land measuring $80 \text{ m} \times 60 \text{ m}$. The semicircle area is used as a garage. Another area is planted with flower and the remaining area is covered with pebbles.



Rajah 10.3
Diagram 10.3

(i) Apakah pecahan bagi luas kawasan yang diliputi dengan batu kelikir daripada luas seluruh tanah itu? Nyatakan jawapan dalam bentuk termudah. [2 markah]
What is the fraction of the area covered with pebbles out of the area of the whole land? Give your answer in the simplest form. [2 marks]

Jawapan/Answer:
Luas kawasan batu kelikir = $\frac{1}{2} \times 60 \times 40 = 1200 \text{ m}^2$
Luas tanah = $80 \times 60 = 4800 \text{ m}^2$
Pecahan = $\frac{1200}{4800} = \frac{1}{4}$

(ii) Luas kawasan pokok bunga ialah 2880 m^2 dan luas garaj adalah $\frac{1}{3}$ daripada luas kawasan pokok bunga. Kira pecahan luas garaj daripada luas tanah itu. [2 markah]
The area planted with flower is 2880 m^2 and the area of the garage is $\frac{1}{3}$ of the area planted with flower. Calculate the fraction of the area of the garage out of the area of the land. [2 marks]

Jawapan/Answer:
Luas garaj = $\frac{1}{3} \times 2880 = 960 \text{ m}^2$
Pecahan = $\frac{960}{4800} = \frac{1}{5}$

KERTAS PEPERIKSAAN TAMAT
END OF QUESTION PAPER

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