

- 21 Jadual 1 menunjukkan nilai-nilai bagi pemboleh ubah P dan Q .
Table 1 shows the values of variables P and Q .

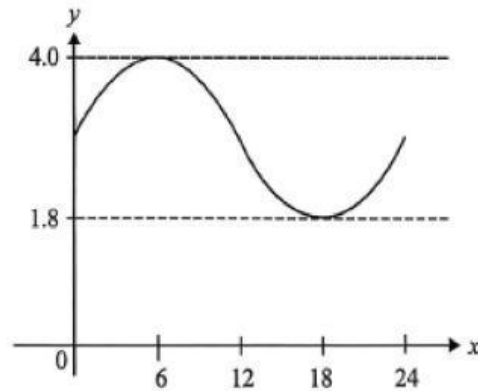
P	x	z
Q	y	18

Jadual 1
Table 1

Diberi Q berubah secara songsang dengan P dan nilai $xy = 3$. Hitung nilai z .
Given that Q varies inversely with P and the value of $xy = 3$. Calculate the value of z .

- A 6
B $\frac{1}{6}$
C $-\frac{1}{6}$
D -6

- 22 Rajah 11 menunjukkan sebuah graf dalam bentuk $y = a \sin bx + c$.
 Diagram 11 shows a graph in the form of $y = a \sin bx + c$.



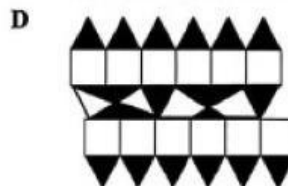
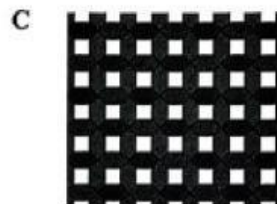
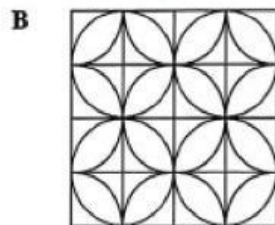
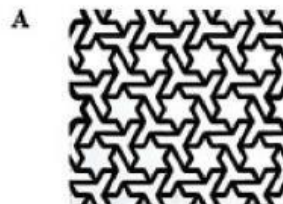
Rajah 11
 Diagram 11

Apakah nilai b ?
 What is the value of b ?

- A 12
- B 15
- C 24
- D 30

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- 23 Antara rajah berikut, yang manakah **bukan** teselasi?
 Which of the following diagram is **not** a tessellation?



- 24 Jadual 2 menunjukkan set tepi bagi empat graf dengan keadaan setiap graf mempunyai empat bucu.

Table 2 shows the sets of edges of four graphs where each graph has four vertices.

Graf Graph	Set tepi Set of edges
<i>P</i>	$\{(1, 2), (1, 3), (2, 2), (2, 3), (2, 4)\}$
<i>Q</i>	$\{(1, 2), (1, 3), (2, 3), (2, 3), (4, 4)\}$
<i>R</i>	$\{(1, 3), (1, 3), (2, 3), (2, 4), (3, 4)\}$
<i>S</i>	$\{(1, 3), (1, 4), (2, 3), (2, 4), (3, 4)\}$

Jadual 2

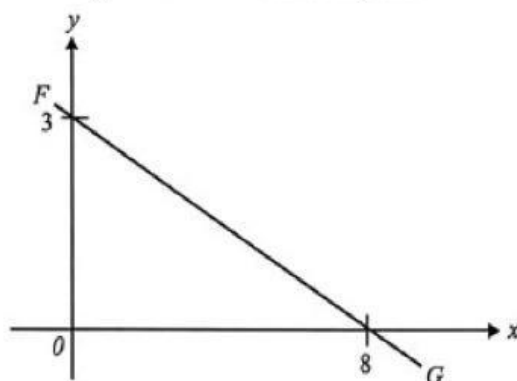
Table 2

Graf manakah ialah satu graf mudah?

Which graph is a simple graph?

- A *P*
- B *Q*
- C *R*
- D *S*

- 25 Rajah 12 menunjukkan garis lurus FG pada suatu satah Cartes.
Diagram 12 shows a straight line FG on a Cartesian plane.



Rajah 12
 Diagram 12

Cari kecerunan garis lurus FG .
Find the gradient of straight line FG .

- A $-\frac{3}{8}$
 B $-\frac{8}{3}$
 C $\frac{3}{8}$
 D $\frac{8}{3}$
- 26 Rajah 13 menunjukkan empat nilai trigonometri.
Diagram 13 shows four trigonometric values.

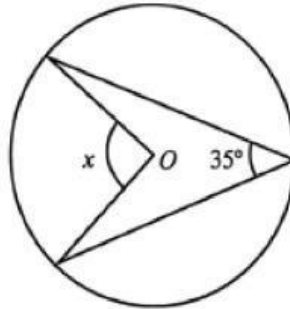
$\sin 45^\circ, \sin 60^\circ, \tan 30^\circ, \tan 45^\circ$

Rajah 13
 Diagram 13

Susunkan nilai-nilai tersebut dalam tertib menurun.
Arrange the values in descending order.

- A $\tan 45^\circ, \sin 60^\circ, \sin 45^\circ, \tan 30^\circ$
 B $\tan 45^\circ, \tan 30^\circ, \sin 60^\circ, \sin 45^\circ$
 C $\sin 60^\circ, \sin 45^\circ, \tan 45^\circ, \tan 30^\circ$
 D $\sin 60^\circ, \tan 45^\circ, \tan 30^\circ, \sin 45^\circ$

- 27 Rajah 14 menunjukkan sebuah bulatan berpusat O .
Diagram 14 shows a circle with centre O .



Rajah 14
Diagram 14

Cari nilai x .
Find the value of x .

- A 35°
B 70°
C 110°
D 290°
- 28 Panjang sebatang sungai pada sebuah peta ialah 8 cm. Diberi panjang sebenar sungai itu ialah 24 km. Tentukan skala yang digunakan.
The length of a river on a map is 8 cm. Given the actual length of the river is 24 km. Determine the scale used.
- A 1 : 3
B 1 : 300
C 1 : 3 000
D 1 : 300 000
- 29 Diberi $\xi = \{x : x \text{ ialah integer dan } 1 < x < 20\}$, $R = \{\text{faktor bagi } 16\}$ dan $S = \{\text{nombor genap}\}$. Antara berikut, yang manakah benar?
Given $\xi = \{x : x \text{ is an integer and } 1 < x < 20\}$, $R = \{\text{factors of } 16\}$ and $S = \{\text{even numbers}\}$. Which of the following is true?
- A $R = S$
B $R \subset S$
C $n(R) = 5$
D $n(R) = 10$

- 30 Puan Chew membeli sebuah rumah bernilai RM250 000. Dia telah membayar wang deposit sebanyak 10% dan bakinya dibayar secara ansurans selama 20 tahun. Kadar faedah yang sama rata dikenakan oleh bank sebanyak $y\%$ setahun. Jika Puan Chew membayar ansurans bulanan sebanyak RM1687.50, hitung nilai y .

Madam Chew bought a house worth RM250 000. She paid 10% of the down payment and the balance is payable in instalment over 20 years. The flat interest rate imposed by the bank is $y\%$ per annum. If Madam Chew pays the monthly instalment of RM1 687.50, calculate the value of y .

- A 3.5
- B 4
- C 4.5
- D 5