

Praktis ke Arah PT3

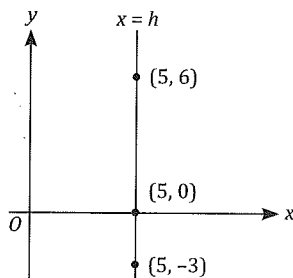
Jawab semua soalan.

Bahagian A

- 1 Tentukan kecerunan dan pintasan-y bagi garis lurus $4y - 5x = 8$.
Determine the gradient and y-intercept of the straight line $4y - 5x = 8$.

	Kecerunan Gradient	Pintasan-y y-intercept
A	$-\frac{5}{4}$	$\frac{1}{2}$
B	$-\frac{4}{5}$	2
C	$\frac{4}{5}$	$\frac{1}{2}$
D	$\frac{5}{4}$	2

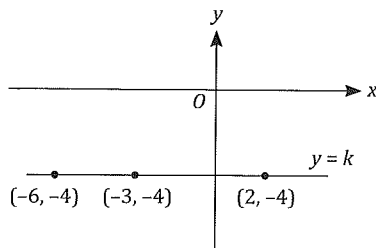
- 2 Rajah berikut menunjukkan satu garis lurus dilukis pada satah Cartes.
The following diagram shows a straight line drawn on a Cartesian plane.



Nyatakan nilai h .
State the value of h .

- A -3 C 5
B 0 D 6

- 3 Rajah berikut menunjukkan satu garis lurus dilukis pada satah Cartes.
The following diagram shows a straight line drawn on a Cartesian plane.



Nyatakan nilai k .
State the value of k .

- A -6 C -3
B -4 D 2

- 4 Nyatakan nilai m dan nilai c bagi persamaan $\frac{3}{2}x + \frac{y}{8} = 1$.

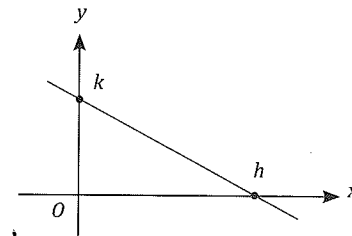
State the values of m and c for the equation $\frac{3}{2}x + \frac{y}{8} = 1$.

- A $m = -12, c = 8$ C $m = 12, c = 8$
B $m = -12, c = 6$ D $m = 8, c = -12$

- 5 Antara titik berikut, yang manakah terletak pada garis lurus $3y = 4x - 9$?
Which of the following points lies on the straight line $3y = 4x - 9$?

- A $(-7, -3)$ C $(3, 2)$
B $(-3, -7)$ D $(6, 7)$

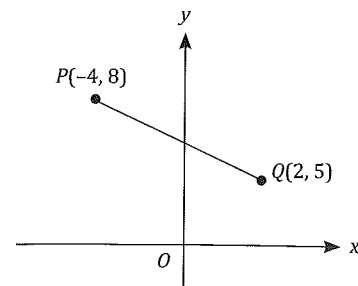
- 6 Rajah berikut menunjukkan graf garis $2x + 7y = 14$.
The following diagram shows a line graph $2x + 7y = 14$.



Cari nilai h dan nilai k .
Find the values of h and k .

- A $h = 2, k = 7$
B $h = 4, k = 4$
C $h = 7, k = 2$
D $h = 7, k = 14$

- 7 Rajah berikut menunjukkan garis lurus PQ dilukis pada satah Cartes.
The following diagram shows straight line PQ drawn on a Cartesian plane.



Cari persamaan bagi garis lurus PQ.
Find the equation of the straight line PQ.

- A $2y + x = 9$
B $2y + x = 12$
C $x + 2y = 12$
D $x + 2y = 18$

- 8 Jika garis lurus $6x + 5y = 12$ adalah selari dengan garis lurus $3x + hy = 8$, hitung nilai h .
If the straight line $6x + 5y = 12$ is parallel to the straight line $3x + hy = 8$, calculate the value of h .

A $-\frac{5}{2}$ C $\frac{2}{5}$
B $-\frac{2}{5}$ D $\frac{5}{2}$

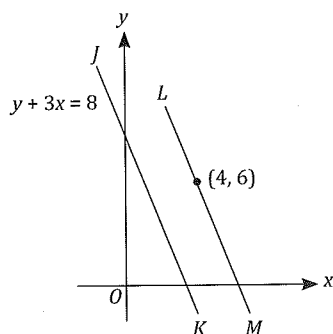
- 9 Tentukan persamaan bagi garis lurus yang melalui titik $P(-6, 9)$ dengan kecerunan $\frac{2}{3}$.

Determine the equation of a straight line which passes through point $P(-6, 9)$ with a gradient of $\frac{2}{3}$.

A $3y = 2x + 39$ C $2y = 3x + 39$
B $3y = 2x - 36$ D $2y = 3x - 36$

- 10 Rajah berikut menunjukkan dua garis lurus JK dan LM dilukis pada satah Cartes. Garis JK adalah selari dengan garis LM .

The following diagram shows two straight lines JK and LM drawn on a Cartesian plane. Line JK is parallel to the line LM .



Cari persamaan bagi garis lurus LM .
Find the equation of the straight line LM .

A $3y + x = 18$ C $y + 3x = 18$
B $y + 3x = 16$ D $y + 3x = 28$

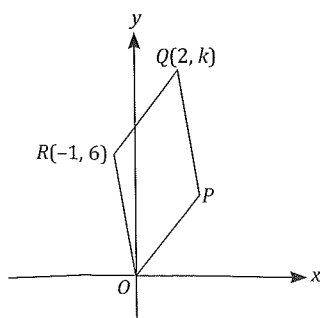
- 11 Tentukan titik persilangan bagi garis lurus $x + 2y = 6$ dan $2x = y - 8$.

Determine the point of intersection of straight lines $x + 2y = 6$ and $2x = y - 8$.

A $(-2, 4)$ C $(2, -4)$
B $(-1, 3)$ D $(4, -2)$

- 12 Rajah berikut menunjukkan sebuah segi empat selari $OPQR$ dilukis pada satah Cartes.

The following diagram shows a parallelogram $OPQR$ drawn on a Cartesian plane.



Diberi kecerunan bagi OP ialah $\frac{4}{3}$, hitung nilai k .

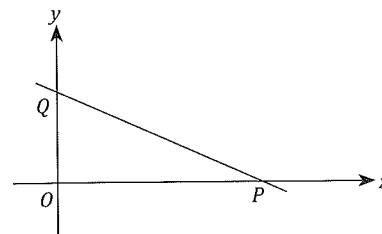
Given the gradient of OP is $\frac{4}{3}$, calculate the value of k .

A 7 C 9
B 8 D 10

Bahagian B

- 1 (a) Rajah di bawah menunjukkan garis lurus PQ dilukis pada satah Cartes. Diberi $OP = 15$ unit dan $5OQ = 4OP$.

The diagram below shows straight line PQ drawn on a Cartesian plane. Given $OP = 15$ units and $5OQ = 4OP$.



Cari kecerunan bagi garis lurus PQ .

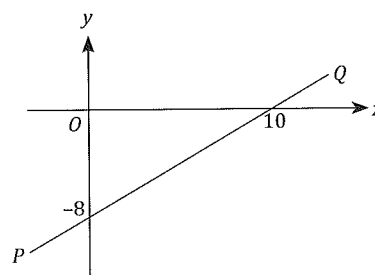
Find the gradient of straight line PQ .

[2 markah/ marks]

Jawapan/ Answer:

- (b) Rajah di bawah menunjukkan garis lurus PQ yang mempunyai persamaan $2y = px - 16$ dengan keadaan p ialah pemalar.

The diagram below shows straight line PQ with an equation of $2y = px - 16$, where p is a constant.



Cari nilai p .

Find the value of p .

[2 markah/ marks]

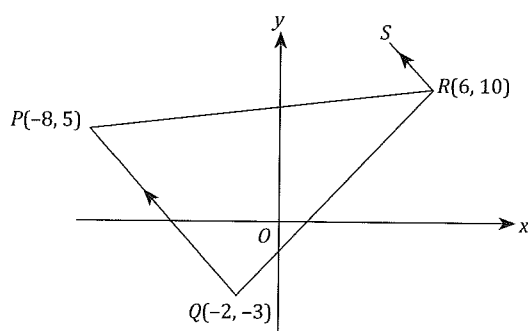
Jawapan/ Answer:

- (b) Diberi bahawa persamaan satu garis lurus yang melalui titik $(0, 12)$ ialah $y = -6x + c$. Cari titik persilangan garis lurus itu dengan paksi-x.
 Given that the equation of a straight line which passes through point $(0, 12)$ is $y = -6x + c$. Find the intersecting point of the straight line with the x-axis.

[3 markah/ marks]

Jawapan/ Answer:

- (c) Rajah di bawah menunjukkan sebuah segi tiga PQR dilukis pada satah Cartes.
 The diagram below shows a triangle PQR is drawn on a Cartesian plane.



Cari/ Find

- (i) persamaan bagi garis lurus SR ,
 the equation of straight line SR ,

[3 markah/ marks]

Jawapan/ Answer:

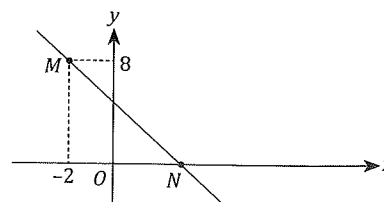
- (ii) pintasan-x bagi garis lurus SR .
 the x-intercept of straight line SR .

[1 markah/ mark]

Jawapan/ Answer:

- 6 (a) Rajah di bawah menunjukkan satu garis lurus MN dilukis pada satah Cartes.

The diagram below shows a straight line MN is drawn on a Cartesian plane.



Diberi kecerunan MN ialah $-\frac{4}{3}$, cari pintasan-x bagi MN .

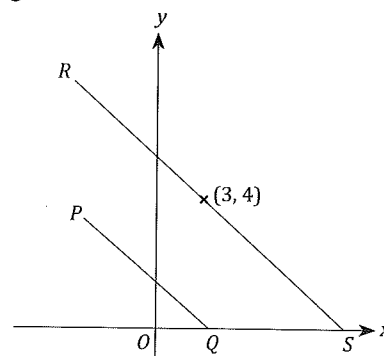
Given the gradient of MN is $-\frac{4}{3}$, find the x-intercept of MN .

[3 markah/ marks]

Jawapan/ Answer:

- (b) Dalam rajah di bawah, garis lurus PQ adalah selari dengan garis lurus RS . Diberi persamaan garis lurus PQ ialah $y = -\frac{4}{3}x + 1$.

In the diagram below, straight line PQ is parallel to the straight line RS . Given the equation of straight line PQ is $y = -\frac{4}{3}x + 1$.



- (i) Cari persamaan bagi garis lurus RS .
 Find the equation of straight line RS .

[3 markah/ marks]

Jawapan/ Answer:

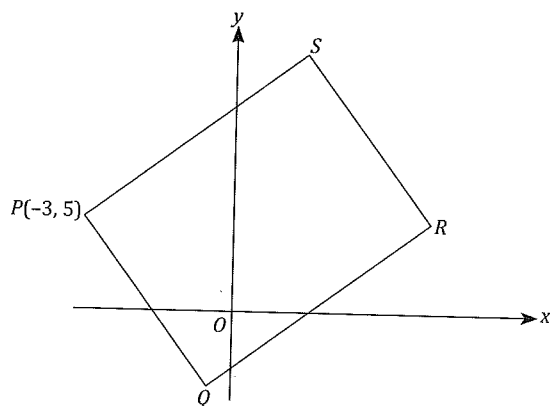
- (ii) Cari pintasan- x bagi garis lurus RS .
Find the x -intercept for the straight line RS .

[1 markah/ mark]

Jawapan/ Answer:

- (c) Rajah di bawah menunjukkan sebuah segi empat selari $PQRS$ dan O ialah asalan. Diberi persamaan garis lurus QR ialah $3x - 2y = 4$.

The diagram below shows a parallelogram $PQRS$ and O is the origin. Given the equation of straight line QR is $3x - 2y = 4$.



- Cari persamaan garis lurus PS .
Find the equation of straight line PS .

[3 markah/ marks]

Jawapan/ Answer:

Praktis ke Arah PT3

Bahagian A/ Section A

- 1 D 2 C 3 B 4 A 5 B
6 C 7 B 8 D 9 A 10 C
11 A 12 D

Bahagian B/ Section B

- 1 (a) $-\frac{4}{5}$ (b) $\frac{8}{5}$
2 (a) $m = \frac{1}{2}, c = -4$
(b) (i) $x = 6$ (ii) $y = -5$
3 (a) (i) $\frac{x}{5} - \frac{y}{4} = 1$ (ii) $y = \frac{4}{5}x - 4$
(b) (i) ✓ (iii) ✓
4 (a) (i) ✓ (iii) ✓
(b) -6

Bahagian C/ Section C

- 5 (a) 5
(b) (2, 0)
(c) (i) $y = -\frac{4}{3}x + 18$ (ii) $\frac{27}{2}$
6 (a) Pintasannya $x = 4$
(b) (i) $y = -\frac{4}{3}x + 8$ (ii) Pintasannya $x = 6$
(c) $2y = 3x + 19$

CABARAN TIMSS/PISA

- 1 $k = 15$
2 $y = -\frac{5}{3}x + 6$

Zon KBAT

- 1 $m_{KL} = -\frac{4}{3}$
2 (a) $R(12, 3)$
(b) $y = -\frac{1}{4}x + 6$
(c) Pintasannya $x = 24$