

Nota Progresif

- Persamaan garis lurus/Equation of a straight line
 $y = mx + c$
 m = kecerunan/gradient
 c = pintasan-y/y-intercept
- Menulis semula persamaan garis lurus $y = mx + c$ dalam bentuk $ax + by = c$ dan $\frac{a}{x} + \frac{b}{y} = 1$ dan sebaliknya.
Rewriting the equation of a straight line $y = mx + c$ in the form of $ax + by = c$ and $\frac{a}{x} + \frac{b}{y} = 1$ and vice versa.
- Kecerunan garis lurus yang selari adalah sama.
The gradients of parallel lines are equal.
- Persamaan garis lurus yang selari dengan paksi-x
Equation of straight line parallel to the x-axis
 $y = k$;
 k = pemalar/constant
- Persamaan garis lurus yang selari dengan paksi-y
Equation of straight line parallel to the y-axis
 $x = h$;
 h = pemalar/constant
- Titik persilangan bagi dua garis lurus boleh ditentukan dengan memplotkan kedua-dua garis lurus itu pada satah Cartes.
The point of intersection of two straight lines can be determined by plotting both straight lines on the Cartesian plane.

Bahagian A

9.1 Garis lurus Straight lines

- Pintasan-y bagi garis lurus $5y + 2x = 20$ ialah
The y-intercept of straight line $5y + 2x = 20$ is
 A $-\frac{2}{5}$ C 10
 B 4 D 20
- Antara titik berikut, yang manakah terletak pada garis lurus $4x - 7y = 19$?
Which of the following points lies on the straight line $4x - 7y = 19$?
 A (2, 3) C (3, -1)
 B (2, -2) D (7, 1)
- Apakah persamaan graf fungsi linear yang mempunyai kecerunan 4 dan melalui titik (3, 5)?
What is the equation of a linear function graph that has a gradient of 4 and passes through the point (3, 5)?

- A $y = 4x + 5$ C $y = 3x + 5$
 B $y = x + 4$ D $y = 4x - 7$

- Fungsi linear p ialah $3x + 8y = 24$ dan **KBAT** fungsi linear q ialah $6x = -16y + 11$. Antara berikut, yang manakah benar bagi kedua-dua fungsi linear tersebut?
The linear function p is $3x + 8y = 24$ and the linear function q is $6x = -16y + 11$. Which of the following is true about the two linear functions?
 A Fungsi linear p dan q mempunyai pintasan-y yang sama.
The linear functions p and q have the same y-intercept.
 B Fungsi linear p dan q adalah selari.
The linear functions p and q are parallel.
 C Fungsi linear p dan q mempunyai pintasan-x yang sama.
The linear functions p and q have the same x-intercept.
 D Fungsi linear p dan q adalah berserenjang.
The linear functions p and q are perpendicular.

- 5 Diberi persamaan garis lurus $6y = 5x - 10$.
Cari pintasan- x bagi garis lurus itu.

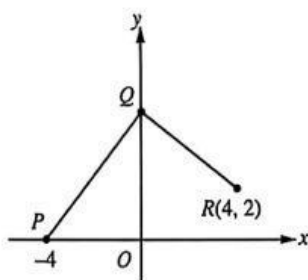
It is given that the equation of a straight line is $6y = 5x - 10$. Find the x -intercept of the straight line.

- A $\frac{5}{6}$ C -10
B $-\frac{5}{3}$ D 2

- 6 Kecerunan garis lurus $8x - 3y = 24$ ialah
The gradient of the straight line $8x - 3y = 24$ is

- A -3
B 8
C $\frac{3}{8}$
D $\frac{8}{3}$

- 7 Rajah menunjukkan graf dua garis lurus, PQ dan QR pada suatu satah Cartes.
The diagram shows the graphs of two straight lines, PQ and QR on a Cartesian plane.



Kecerunan PQ adalah 2.5. Cari kecerunan QR .

The gradient of PQ is 2.5. Find the gradient of QR .

- A -2 C -4
B -2.5 D -10

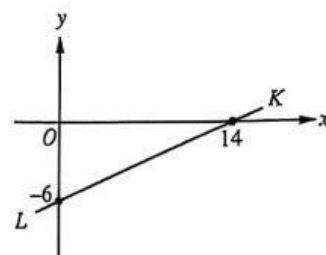
- 8 Cari pintasan bagi garis lurus $\frac{x}{3} - \frac{y}{6} = 1$.

Find the intercepts of the straight line

$$\frac{x}{3} - \frac{y}{6} = 1.$$

	Pintasan- x x -intercept	Pintasan- y y -intercept
A	3	6
B	3	-6
C	6	3
D	-6	3

- 9 Dalam rajah, KL ialah garis lurus.
In the diagram, KL is a straight line.



Kecerunan garis KL ialah

The gradient of line KL is

- A $-\frac{7}{3}$
B $-\frac{3}{7}$
C $\frac{3}{7}$
D $\frac{7}{3}$

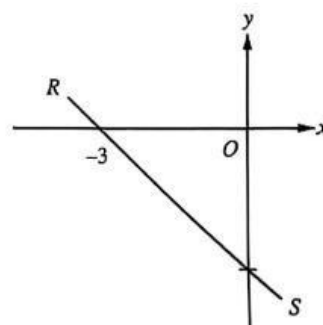
- 10 Koordinat titik J ialah $(4, -9)$ dan kecerunan garis lurus JK ialah $\frac{3}{4}$. Koordinat titik K yang mungkin ialah

The coordinates of point J are $(4, -9)$ and the gradient of the straight line JK is $\frac{3}{4}$. The possible coordinates of point K is

- A $(12, 3)$
B $(7, -5)$
C $(-8, 0)$
D $(20, 3)$

- 11 Dalam graf, RS ialah garis lurus dengan kecerunan $-\frac{2}{5}$.

In the graph, RS is a straight line with gradient $-\frac{2}{5}$.



Cari pintasan-y bagi garis lurus RS .
Find the y-intercept of the straight line RS .

- A $-7\frac{1}{2}$ C $-\frac{5}{6}$
B $-1\frac{1}{5}$ D $-\frac{2}{15}$

- 12 Kecerunan bagi garis lurus $4x + my + 10 = 0$ ialah 2. Cari nilai m .

The gradient of the straight line $4x + my + 10 = 0$ is 2. Find the value of m .

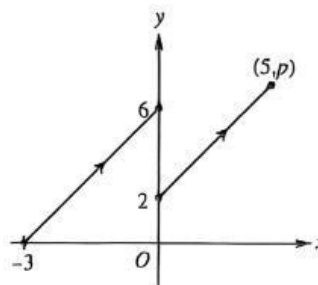
- A -2 C 5
B -5 D 2

- 13 Cari persamaan garis lurus yang mempunyai kecerunan -3 dan melalui titik $(0, 1)$.

Find a straight line equation with gradient -3 and passes through point $(0, 1)$.

- A $y = x - 3$
B $y = -3x$
C $y = -3x + 1$
D $y = -\frac{1}{3}x + 1$

- 14 Rajah menunjukkan graf dua garis lurus selari yang dilukis pada suatu satah Cartes.
The diagram shows the graphs of two parallel straight lines drawn on the Cartesian plane.



Cari nilai p .

Find the value of p .

- A 10
B 11
C 12
D 13