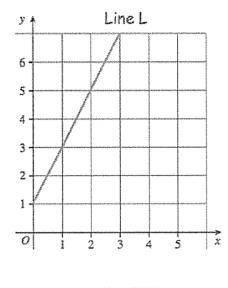


Algebra With Classified answer book

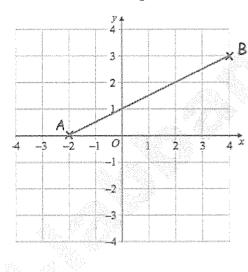


14- Gradient

1, a) Line L is drawn on the grid. Work out the gradient of Line L.



b) AB is drawn on the grid. Work out the gradient of AB.



2. A is the point with coordinates (-1, -4)

C is the point with coordinates (2, 5) Find the gradient of the AC

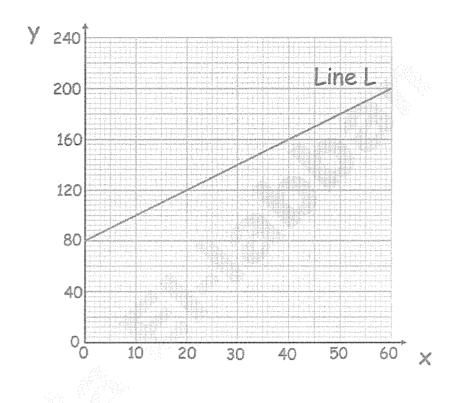
3. A is the point with coordinates (1, 4). B is the point with coordinates (7, 22).

Find the gradient of AB in its simplest form.

4. Line L is drawn on the grid.

0

Work out the gradient of Line L.



- *********
- 5. The line joining (2, -1) and (k, 1) has a gradient $\frac{2}{3}$. Work out the value of k

15- Identify Gradient and Y-intercept of Straight Line

1. The line y = 4x + 2 on the grid.

Gradient =....

y-intercept =.....

2. The line 2y + x = 20 on the grid.

Gradient =.....

y-intercept =.....

3. Write the gradient m

a) v = 10x + 20

Gradient =.....

y-intercept =.....

b) y = 10 - 20x

Gradient =....

y-intercept =.....

c) y = -2.5 - 0.5x

Gradient =.....

y-intercept =....

4. Write down the gradient of each line.

a) 20 + 0.5 = 0

Gradient =.....

y-intercept =.....

b) $2 = \frac{2}{2} + \frac{1}{4}$

Gradient =....

y-intercept =.....

- 5. Write the gradient and y-intercept of each line.
 - a) y = 12

b) x = -45

M=

M=

C=

6. Rearrange the equation y - 4x + 2 = 10 to make y the subject. Write the gradient and the y-intercept of a graph

C=

7. Rearrange the equation 3x + y = 15. to make y the subject.

Write the gradient and the y-intercept of a graph

m=

C=

8. Here is a function: x + y = 15

Write the gradient and the *y*-intercept of the graph of x + y = 15.

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8.5 t 2.2 t 2.5 t 2.5

C....

9. Decreases the equation $2x \pm 4y = 24$ to make y the subject	
9. Rearrange the equation 3x + 4y = 24, to make y the subject.	
Write the gradient and the y-intercept.	
n	n=
	>=
Find where the line crosses the x-axis	

10. Write the gradient and the y-intercept of a graph	
a) i) $6x + 3y = 18$	
	m=
	C=
ii) Find where the line cross Y-axis	

b) i) $3x + 2y = 18$	
	m=
	C=
ii) Find where the line cross Y- axis	

11. (a) Here are the equations of some straight line graphs.

$$y = x + 2$$

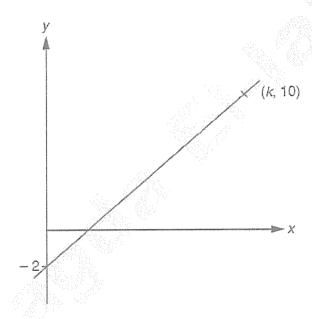
$$y = 2x - 3$$

$$2y = x - 3$$

$$x = 2$$

Draw a ring around the graph with gradient 2

(b). The diagram shows the graph of y = 3x + c, where c is a constant.



Find the value of k.

k = .____