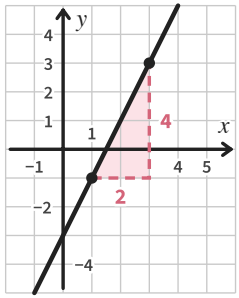
Gradient and $y = mx + c$

1

Find the gradient of the line.



run = 2

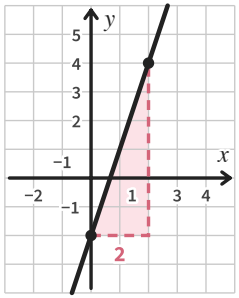
rise = 4

gradient = $\frac{4}{2}$

Gradient _____

2

Find the gradient of the line.



run = 2

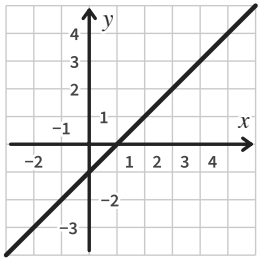
rise = _____

gradient = _____

Gradient _____

3

Draw a triangle under the line.
Find the gradient.



run = _____

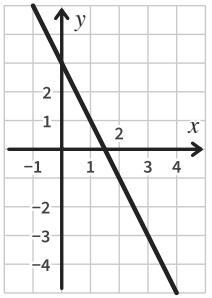
rise = _____

gradient = _____

Gradient _____

4 *Notice the change!*

Find the gradient of the line.



run = _____

rise = _____

gradient = _____

Gradient _____

5

Write down the gradient and the y intercept of the line $y = 5x - 2$.

Gradient _____

y intercept _____

6

Find the gradient and the y intercept of the line $3y = 6x + 9$.

Divide every term by 3: _____

Gradient _____

y intercept _____

7

Amara says the gradient of $y = 7 - 2x$ is 7. Explain her mistake. Write down the gradient and the y intercept.

_____

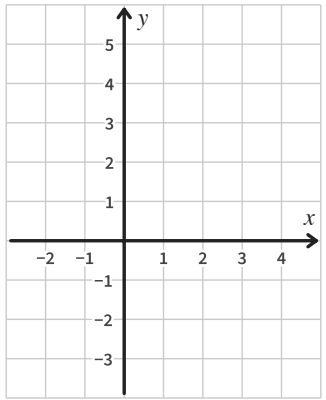
_____

Gradient _____

y intercept _____

8

Draw the line $y = 2x - 1$ on the grid.



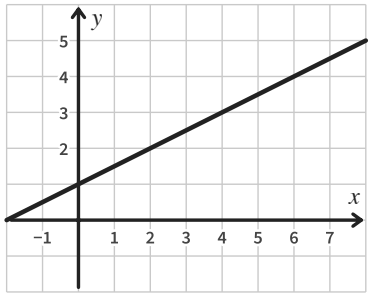
y intercept = _____

gradient = _____

Gradient and $y = mx + c$ *further practice*

9

Find the gradient of the line.



Answer _____

10

Which line is steeper, $y = 3x + 5$ or $2y = 7x + 1$? Show how you know.

Answer _____

11

Find the gradient and the y intercept of the line $5y = 2x + 10$.

Answer _____

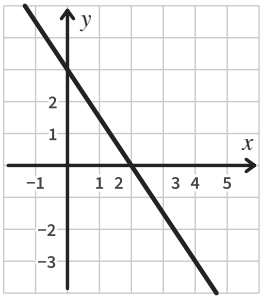
12

Find the gradient and the y intercept of the line $2y = 8 - 6x$.

Answer _____

13

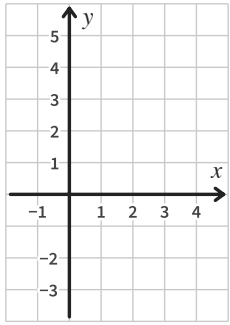
Find the gradient of the line.



Answer _____

14

Draw the line $3y = 9 - 6x$ on the grid.



Answer _____

15

Which line does not cross the y axis at the same point as the others?

A $y = 5x + 4$

B $2y = 3x + 8$

C $y = 4 - x$

D $4y = x + 8$

Answer _____

16

The line $ky = 6x + 3$ has gradient 2.
Find the value of k and the y intercept.

Answer _____