

Find the gradient of a line

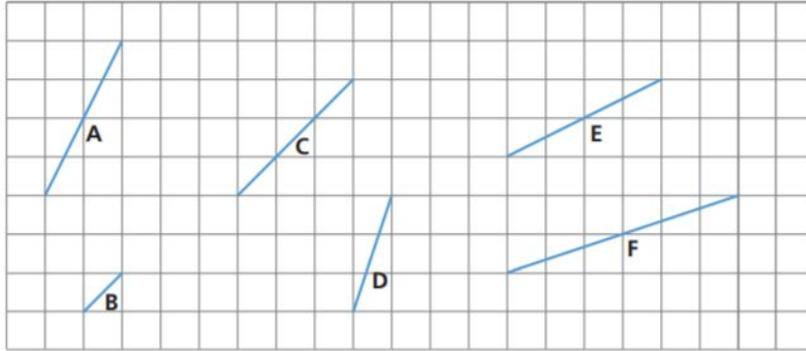
Maths

Mr Clasper



Find the gradient of a straight line

1. Work out the gradient of each line



2. On a squared grid draw a line with a gradient of 3 and a line with a gradient of -3

What is the same and what is different about your lines?

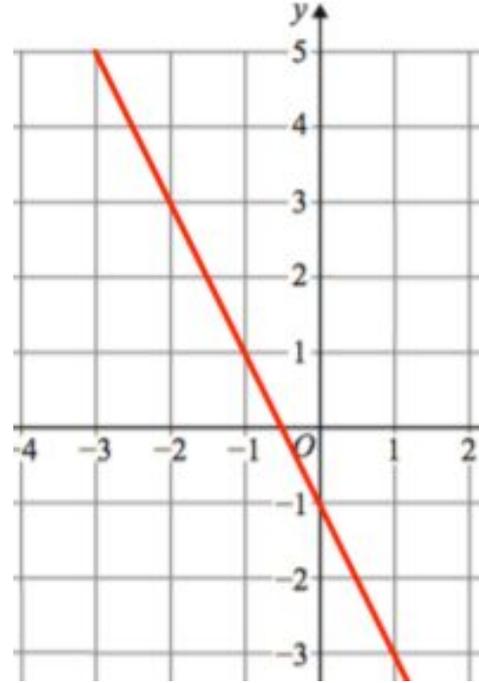
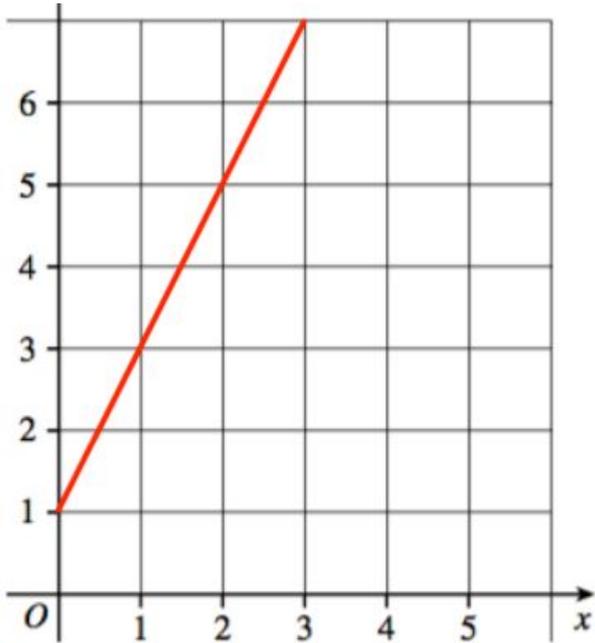


Find the gradient of a straight line

3. Work out the gradient of each line.

b)

a)



Find the gradient of a straight line

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

B is the point with coordinates $(7, 22)$

Find the gradient of AB.

5. Work out the gradient of the line passing through the points $(3, 2)$ and $(7, 20)$

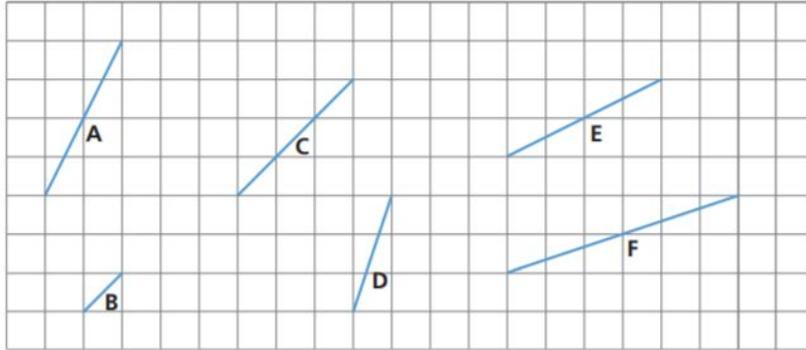


Answers



Find the gradient of a straight line

1. Work out the gradient of each line



$$A = 2, B = 1, C = 1, D = 3, E = \frac{1}{2}, F = \frac{1}{3}$$

2. On a squared grid draw a line with a gradient of 3 and a line with a gradient of -3

e.g.



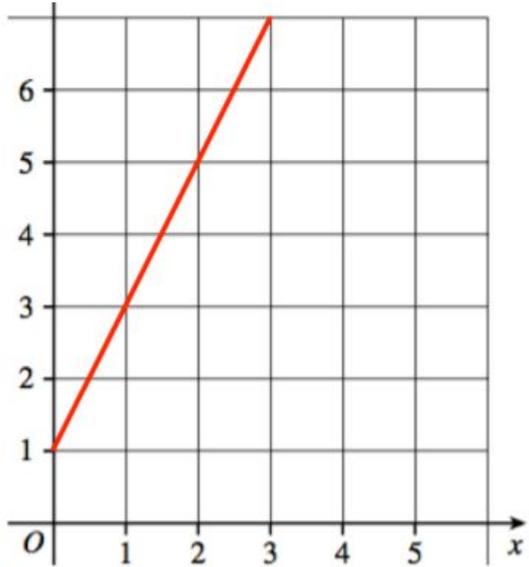
What is the same and what is different about your lines?



Find the gradient of a straight line

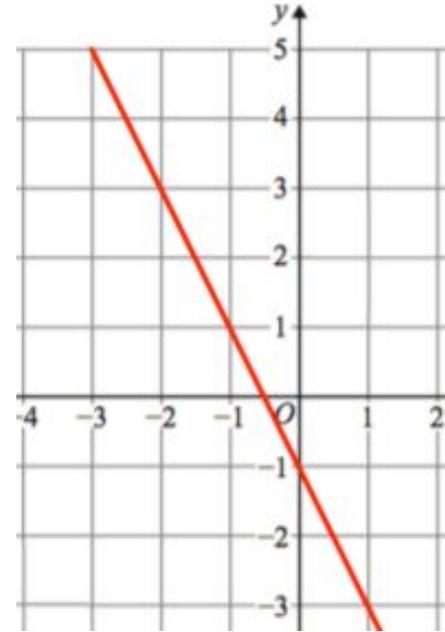
3. Work out the gradient of each line.

a)



gradient = 2

b)



gradient = -2



Find the gradient of a straight line

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

B is the point with coordinates (7, 22)

Find the gradient of AB.

$$\text{gradient} = 3$$

5. Work out the gradient of the line passing through the points (3, 2) and (7, 20)

$$\text{gradient} = 4.5$$

