5.1) $y=m x+c$

Calculate the gradient between the coordinates:
$(2,1)$ and $(5,7)$

Calculate the gradient between the coordinates:
$(-4,2)$ and $(6,8)$
$\frac{3}{5}$

Calculate the gradient between the coordinates:
$(2,1)$ and $(5,-7)$

Calculate the gradient between the coordinates:
$(-4,2)$ and $(-6,-8)$
5

## Your turn

The gradient connecting the two points $(2 a, 5)$ and $(7 a, 8)$ is 6 . Solve for $a$

The gradient connecting the two points $(3 a, 7)$ and $(5 a, 12)$ is 6 . Solve for $a$

$$
a=\frac{5}{12}
$$

## Your turn

The gradient connecting the two points $(2,-5)$ and $(a, b)$ is 4 . Find an expression for $b$ in terms of $a$

The gradient connecting the two points $(-3,4)$ and $(a, b)$ is 2 . Find an expression for $b$ in terms of $a$

$$
b=2 a+10
$$

