5.1)
$$y = mx + c$$

Worked example	Your turn
Calculate the gradient between the coordinates:	Calculate the gradient between the coordinates:
(2, 1) and (5, 7)	(-4, 2) and (6, 8) 3 5
(−2, −1) and (5, 7)	

Worked example	Your turn
Calculate the gradient between the coordinates:	Calculate the gradient between the coordinates:
(2, 1) and (5, –7)	(-4,2) and (-6, -8) 5
(2, −1) and (−5, −7)	

Worked example	Your turn
The gradient connecting the two points (2 <i>a</i> , 5) and (7 <i>a</i> , 8) is 6. Solve for <i>a</i>	The gradient connecting the two points (3 <i>a</i> , 7) and (5 <i>a</i> , 12) is 6. Solve for <i>a</i>
	$a = \frac{5}{12}$

Worked example	Your turn
The gradient connecting the two points $(2, -5)$ and (a, b) is 4. Find an expression for b in terms of a	6