Equations using one point and the gradient

Example

Find the equation of the line that goes through $(3,5)$ and has gradient 2.

Quickfire Questions

Gradient	Point	(Unsimplified) Equation
3	$(1,2)$	
5	$(3,0)$	
2	$(-3,4)$	
$\frac{1}{2}$	$(1,-5)$	
9	$(-4,-4)$	

Finding a line using 2 Points:

Example

1. Find the equation of the line that goes through $(4,5)$ and $(6,2)$, giving your equation in the form
$ax + by + c = 0$.

Test Your Understanding:

1. Find the equation of the line that goes through $(-1,9)$ and $(4,5)$, giving your equation in the form
$ax + by + c = 0$.

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