Worked example	Your turn
Determine the gradient and y-intercept of the line with equation $3x + 5y - 4 = 0$	Determine the gradient and y-intercept of the line with equation $4x - 3y + 5 = 0$ Gradient $= \frac{4}{3}$ y-intercept $= \frac{5}{3}$

Worked example

Express in the form $ax + by + c = 0$:

$$y = 5x - 2$$

$$y = -2x + 5$$

Your turn

Express $y = 4x + 3$ in the form

$$ax + by + c = 0$$

$$4x - y + 3 = 0$$

Worked example

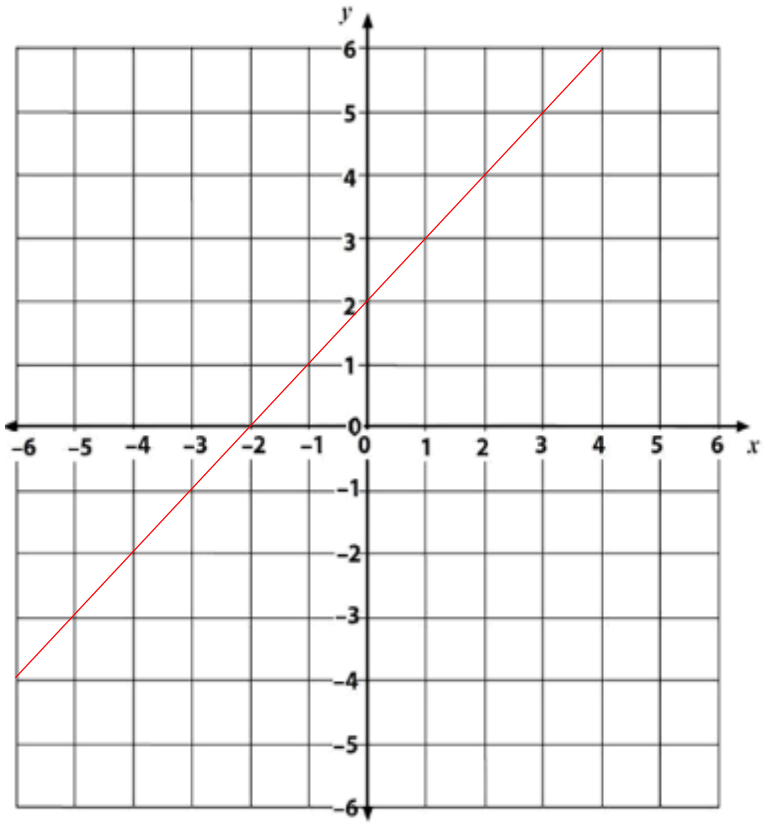
Express $y = \frac{2}{5}x - \frac{3}{5}$ in the form $ax + by + c = 0$, where a, b, c are integers.

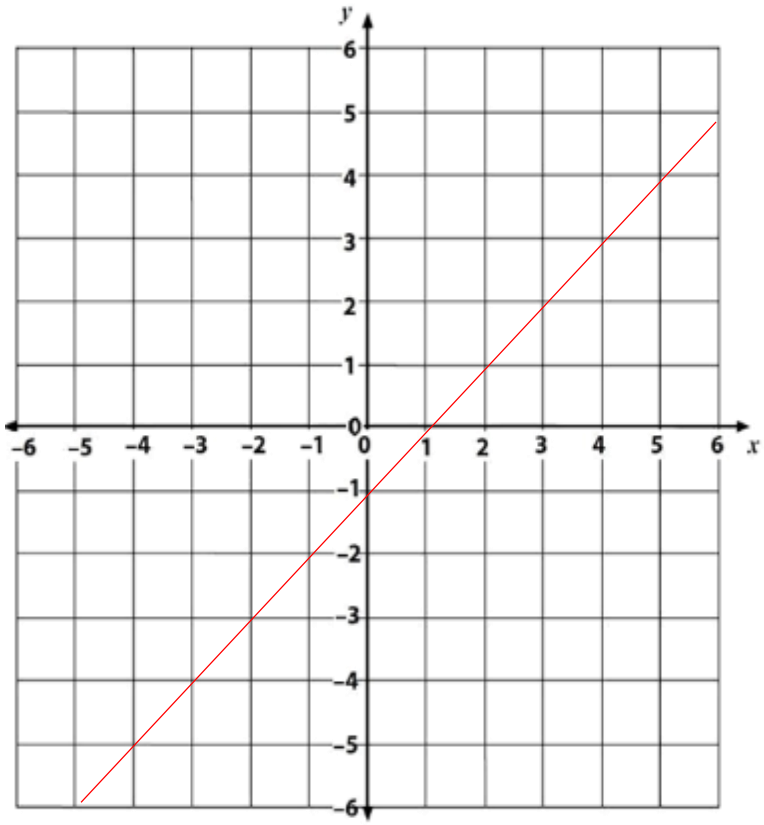
Your turn

Express $y = \frac{1}{3}x - \frac{2}{3}$ in the form $ax + by + c = 0$, where a, b, c are integers.

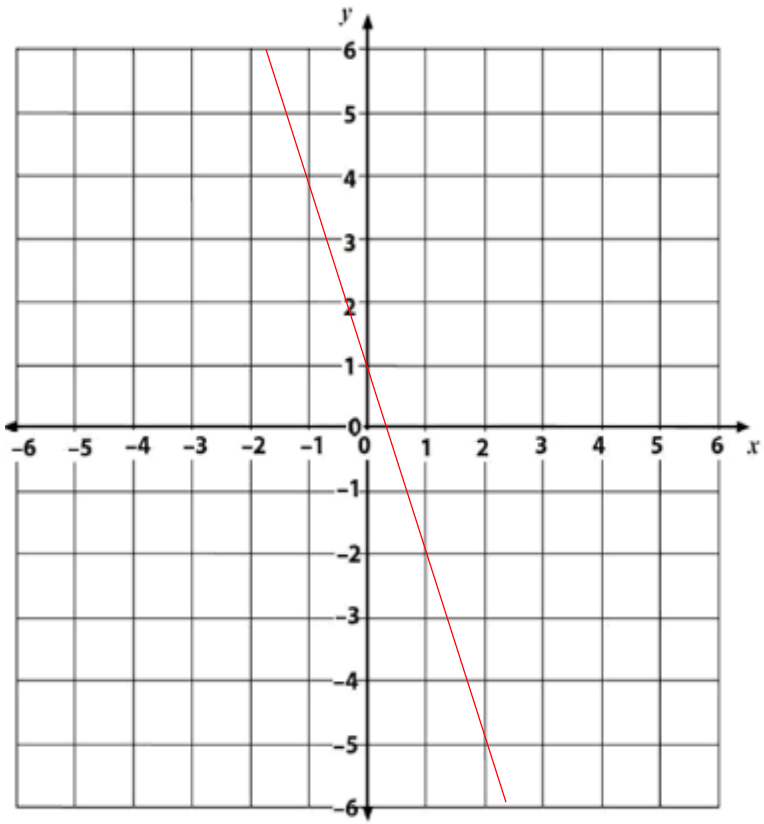
$$x - 3y - 2 = 0$$

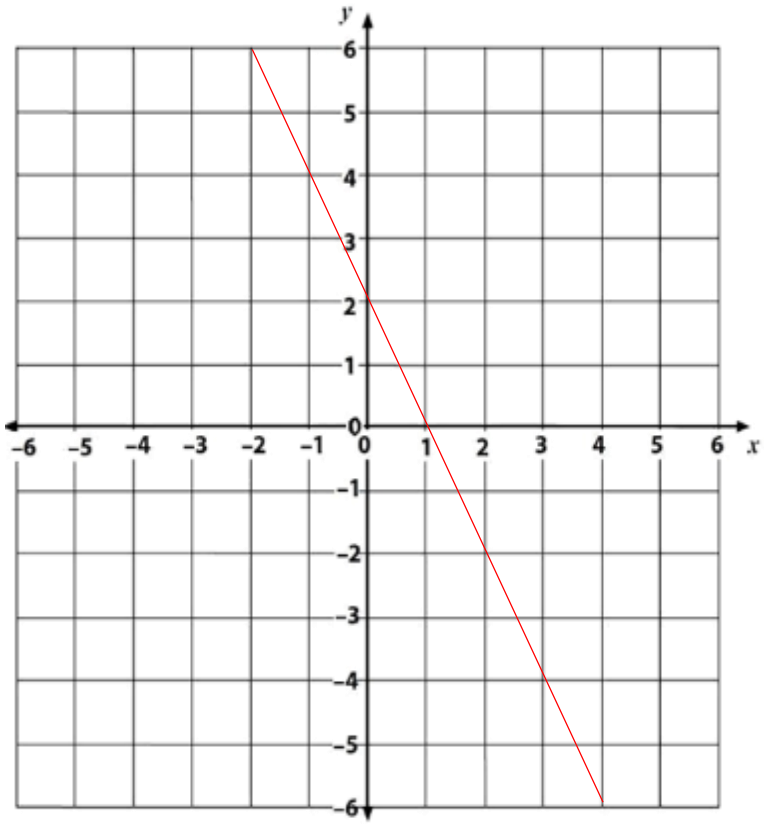
Worked example	Your turn
Gradient: $m =$	Gradient: $m =$ 1
y-intercept: $c =$	y-intercept: $c = -1$
$y = mx + c \ \rightarrow$	$y = mx + c \ \rightarrow \ y = x - 1$



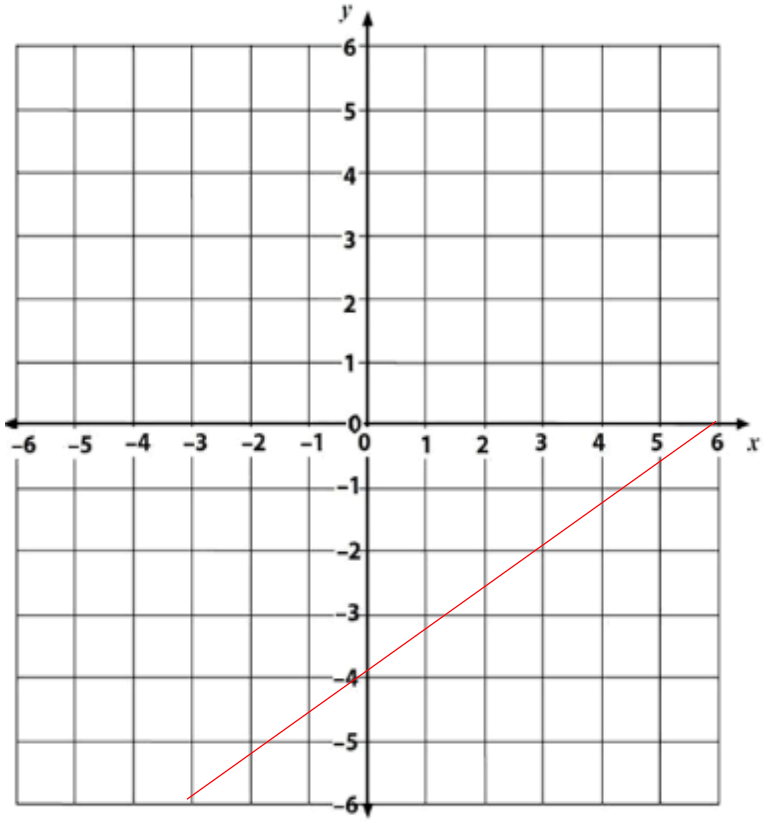


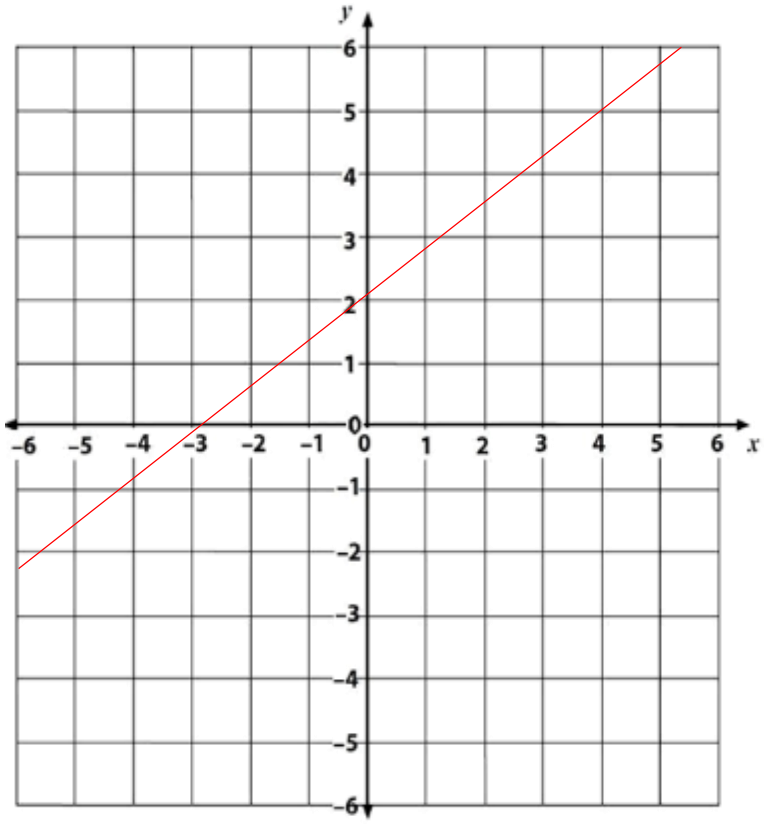
Worked example	Your turn
Gradient: $m =$	Gradient: $m = -2$
y-intercept: $c =$	y-intercept: $c = 2$
$y = mx + c \rightarrow$	$y = mx + c \rightarrow y = -2x + 1$





Worked example	Your turn
Gradient: $m =$	Gradient: $m = \frac{3}{4}$
y-intercept: $c =$	y-intercept: $c = 2$
$y = mx + c \rightarrow$	$y = mx + c \rightarrow y = \frac{3}{4}x + 2$





Worked example	Your turn
Gradient: $m =$	Gradient: $m = -\frac{3}{4}$
y-intercept: $c =$	y-intercept: $c = 2$
$y = mx + c \rightarrow$	$y = mx + c \rightarrow y = -\frac{3}{4}x + 2$