STRAIGHT LINE GRAPHS
THE STRAIGHT LINE EQUATION

Ref: G291.**3F1**

A1 State the gradient and the y-axis intercept of $$y = 3x + 7$$	**A2** State the gradient and the y-axis intercept of $$y = 7x - 3$$	**A3** State the gradient and the y-axis intercept of $$y = 3 - 7x$$	**A4** State the gradient and the y-axis intercept of $$y = -7 + 3x$$
B1 State the gradient and the y-axis intercept of $$y = \frac{2}{3}x + 7$$	**B2** State the gradient and the y-axis intercept of $$y = \frac{3}{4} + 2x$$	**B3** State the gradient and the y-axis intercept of $$y = 3 - \frac{2}{5}x$$	**B4** State the gradient and the y-axis intercept of $$y = \frac{1}{3}x + \frac{2}{3}$$
C1 Work out the gradient and the y-axis intercept of $$2y = 4x + 10$$	**C2** Work out the gradient and the y-axis intercept of $$3y = 9 - 6x$$	**C3** Work out the gradient and the y-axis intercept of $$3y = 2x + 1$$	**C4** Work out the gradient and the y-axis intercept of $$4y = 2x - 9$$
D1 Work out the gradient and the y-axis intercept of $$y + 8 = 4x$$	**D2** Work out the gradient and the y-axis intercept of $$y + 3x = 6$$	**D3** Work out the gradient and the y-axis intercept of $$2x + y - 3 = 0$$	**D4** Work out the gradient and the y-axis intercept of $$5x = 3 + y$$

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STRAIGHT LINE GRAPHS
THE STRAIGHT LINE EQUATION

$$y = mx + c$$

Ref: G291. **3F1**

A1 State the gradient and the *y*-axis intercept of

$$y = 3x + 7$$

$m = 3$
$c = 7$

A2 State the gradient and the *y*-axis intercept of

$$y = 7x - 3$$

$m = 7$
$c = -3$

A3 State the gradient and the *y*-axis intercept of

$$y = 3 - 7x$$

$y = -7x + 3$

$m = -7$
$c = 3$

A4 State the gradient and the *y*-axis intercept of

$$y = -7 + 3x$$

$y = 3x - 7$

$m = 3$
$c = -7$

B1 State the gradient and the *y*-axis intercept of

$$y = \frac{2}{3}x + 7$$

$m = \frac{2}{3}$
$c = 7$

B2 State the gradient and the *y*-axis intercept of

$$y = \frac{3}{4} + 2x$$

$y = 2x + 0.75$

$m = 2$
$c = 0.75$

B3 State the gradient and the *y*-axis intercept of

$$y = 3 - \frac{2}{5}x$$

$y = -0.4x + 3$

$m = -0.4$
$c = 3$

B4 State the gradient and the *y*-axis intercept of

$$y = \frac{1}{3}x + \frac{2}{3}$$

$m = \frac{1}{3}$
$c = \frac{2}{3}$

C1 Work out the gradient and the *y*-axis intercept of

$$2y = 4x + 10$$

$y = 2x + 5$

$m = 2$
$c = 5$

C2 Work out the gradient and the *y*-axis intercept of

$$3y = 9 - 6x$$

$y = -2x + 3$

$m = -2$
$c = 3$

C3 Work out the gradient and the *y*-axis intercept of

$$3y = 2x + 1$$

$y = \frac{2}{3}x + \frac{1}{3}$

$m = \frac{2}{3}$
$c = \frac{1}{3}$

C4 Work out the gradient and the *y*-axis intercept of

$$4y = 2x - 9$$

$y = 0.5x - 2.25$

$m = 0.5$
$c = -2.25$

D1 Work out the gradient and the *y*-axis intercept of

$$y + 8 = 4x$$

$y = 4x - 8$

$m = 4$
$c = -8$

D2 Work out the gradient and the *y*-axis intercept of

$$y + 3x = 6$$

$y = -3x + 6$

$m = -3$
$c = 6$

D3 Work out the gradient and the *y*-axis intercept of

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

$m = -2$
$y = -2x + 3$
$c = 3$

D4 Work out the gradient and the *y*-axis intercept of

$$5x = 3 + y$$

$y = 5x - 3$

$m = 5$
$c = -3$

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