

Finding the Gradient and y-Intercept

Find the gradient and the coordinates of the y-intercept for the straight lines given by these equations:

- (a) $y = 2x + 1$ (b) $y = 2x + 3$
(c) $y = 3x + 2$ (d) $y = -3x + 2$
(e) $y = -3x - 2$ (f) $y = -3x - 7$
(g) $y = -3x$ (h) $y = 5x$

Find the gradient and the coordinates of the y-intercept for the straight lines given by these equations:

- (a) $y = x + 1$ (b) $y = x - 5$
(c) $y = -x + 5$ (d) $y = \frac{1}{2}x + 2$
(e) $y = -\frac{1}{2}x + 5$ (f) $y = \frac{1}{3}x - 6$
(g) $y = -\frac{2}{3}x$ (h) $y = -\frac{2}{3}x + \frac{5}{3}$

Find the gradient and the coordinates of the y-intercept for the straight lines given by these equations:

- (a) $y = 1 + 2x$ (b) $y = 1 - 2x$
(c) $y = 5 + 2x$ (d) $y = -5 + 2x$
(e) $y = 7 - \frac{1}{2}x$ (f) $y = -6 + \frac{2}{3}x$

Write down the equations of each straight line, given the following information:

- (a) The gradient is 5 and the coordinates of the y-intercept are (0, 7).
(b) The gradient is -1 and the coordinates of the y-intercept are (0, 9).
(c) The gradient is $\frac{3}{4}$ and the coordinates of the y-intercept are (0, 0).

Finding the Gradient and y-Intercept

Find the gradient and the coordinates of the y-intercept for the straight lines given by these equations:

- (a) $y = 2x + 1$ (b) $y = 2x + 3$
(c) $y = 3x + 2$ (d) $y = -3x + 2$
(e) $y = -3x - 2$ (f) $y = -3x - 7$
(g) $y = -3x$ (h) $y = 5x$

Find the gradient and the coordinates of the y-intercept for the straight lines given by these equations:

- (a) $y = x + 1$ (b) $y = x - 5$
(c) $y = -x + 5$ (d) $y = \frac{1}{2}x + 2$
(e) $y = -\frac{1}{2}x + 5$ (f) $y = \frac{1}{3}x - 6$
(g) $y = -\frac{2}{3}x$ (h) $y = -\frac{2}{3}x + \frac{5}{3}$

Find the gradient and the coordinates of the y-intercept for the straight lines given by these equations:

- (a) $y = 1 + 2x$ (b) $y = 1 - 2x$
(c) $y = 5 + 2x$ (d) $y = -5 + 2x$
(e) $y = 7 - \frac{1}{2}x$ (f) $y = -6 + \frac{2}{3}x$

Write down the equations of each straight line, given the following information:

- (a) The gradient is 5 and the coordinates of the y-intercept are (0, 7).
(b) The gradient is -1 and the coordinates of the y-intercept are (0, 9).
(c) The gradient is $\frac{3}{4}$ and the coordinates of the y-intercept are (0, 0).