

1. Write down the straight line equation from the information given.

(m – gradient, i – intercept on y-axis)

(a) $m = 3, i = 4$

(b) $m = 2, i = -1$

(c) $m = 5, i = 3$

(d) $m = -2, i = 1$

(e) $m = 4, i = -3$

(f) $m = 1, i = -1$

(g) $m = 7, i = -4$

(h) $m = -2, i = -5$

(i) $m = 2, i = -11$

(j) $m = 6, i = 7$

(k) $m = 9, i = -10$

(l) $m = -2, i = -9$

2. For each equation write down the gradient and intercept on the y-axis.

(a) $y = 3x + 4$

(b) $y = x - 1$

(c) $y = 2x - 5$

(d) $y = 5x + 1$

(e) $y = x - 6$

(f) $y = 4x + 7$

(g) $y = 3x - 9$

(h) $y = 2(x - 4)$

(i) $y = 5(x - 3)$

(j) $y = 3(2x - 1)$

(k) $2y = 2x - 3$

(l) $3y = 6x + 1$

3. Find the equation of the line that passes through the following points.

(a) (0,0) (2,3)

(b) (0,0) (-3,-4)

(c) (0,0) (-2,1)

(d) (1,0) (-3,1)

(e) (1,0) (2,-1)

(f) (1,0) (-1,2)

(g) (-1,0) (1,4)

(h) (-3,-2) (2,2)

(i) (2,-1) (3,5)

(j) (-1,-1) (-2,-6)

(k) (-6,-2) (-4,-7)

(l) (-1,-7) (-9,-10)

4. For each equation write down the intercept on the x-axis.

(a) $y = x + 6$

(b) $y = 2x - 8$

(c) $y = 3x - 9$

(d) $y = x + 3$

(e) $y = 5x - 2$

(f) $y = 3 - 2x$

(g) $y = 5 - x$

(h) $2y = 4 + 3x$

(i) $3y = 2(3 - 2x)$

1.

(a) $y = 3x + 4$

(b) $y = 2x - 1$

(c) $y = 5x + 3$

(d) $y = -2x + 1$

(e) $y = 4x - 3$

(f) $y = x - 1$

(g) $y = 7x - 4$

(h) $y = -2x - 5$

(i) $y = 2x - 11$

(j) $y = 6x + 7$

(k) $y = 9x - 10$

(l) $y = -2x - 9$

2.

(a) 3, 4

(b) 1, -1

(c) 2, -5

(d) 5, 1

(e) 1, -6

(f) 4, 7

(g) 3, -9

(h) 2, -8

(i) 5, -15

(j) 6, -3

(k) 1, $-1\frac{1}{2}$

(l) 2, $\frac{1}{3}$

3.

(a) $y = \frac{3}{2}x$

(b) $y = \frac{4}{3}x$

(c) $y = -\frac{1}{2}x$

(d) $y = -\frac{1}{4}x + \frac{1}{4}$

(e) $y = -x + 1$

(f) $y = -x + 1$

(g) $y = 2x + 2$

(h) $y = \frac{4}{5}x + \frac{2}{5}$

(i) $y = 6x - 13$

(j) $y = 5x + 4$

(k) $y = -\frac{5}{2}x - 17$

(l) $y = \frac{3}{8}x - 6\frac{5}{8}$

4.

(a) -6

(b) 4

(c) 3

(d) -3

(e) $\frac{2}{5}$

(f) $1\frac{1}{2}$

(g) 5

(h) $-1\frac{1}{3}$

(i) $1\frac{1}{2}$