Equation of a Straight Line Revision

(a)

Write down the gradient and y-intercept of the straight line with equation $y = 5x - 2$

$gradient\ 5$
$y - intercept\ (0, -2)$

(b)

Write down the gradient and y-intercept of the straight line with equation $y = -\frac{1}{2}x + 7$

$gradient\ -\frac{1}{2}$
$y - intercept\ (0, 7)$

(c)

Write down the gradient and y-intercept of the straight line with equation $3y = 2x - 9$

$gradient\ \frac{2}{3}$
$y - intercept\ (0, -3)$

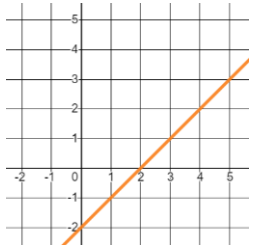
(d)

Find the gradient of the line joining $(2, 5)$ and $(4, 11)$

3

(e)

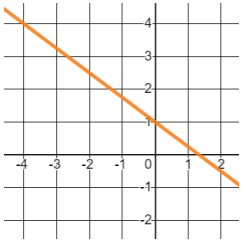
Find the equation of the line.



$y = x - 2$

(f)

Find the equation of the line.



$y = -\frac{3}{4}x + 1$

(g)

Write down the equation of the line that is parallel to $y = -4x - 9$ and passes through $(0, 2)$

$y = -4x + 2$

(h)

Write down the equation of the line that is perpendicular to $y = -3x$ and passes through the point $(0, -5)$

$y = \frac{1}{3}x - 5$

(i)

Find the equation of the line that has a gradient of 2 and passes through $(4, 3)$

$y = 2x - 5$

(j)

Find the equation of the line that is perpendicular to the line $2y = x - 8$ and passes through $(-1, 9)$

$y = -2x + 7$

(k)

Find the equation of the line that passes through $(2, 9)$ and $(5, 3)$.

$y = -2x + 13$