Solutions – Equation of a Line (A)

Find the equation of the line passing through the points $(-3, -2)$ and $(-4, -6)$.

$y = 4x + 10$

Find the equation of the line passing through the points $(-6, 1)$ and $(-4, -5)$.

$y = -3x - 17$

The gradient of a line is -6 and it passes through the point $(-3, -9)$. Find the equation of the line.

$y = -6x - 27$

Find the equation of the horizontal line passing through the point $(-8, 7)$.

$y = 7$

Solutions – Equation of a Line (B)

The gradient of a line is −5 and it passes through the point (6, −8).
Find the equation of the line.

$y = -5x + 22$

Find the equation of the horizontal line passing through the point (8, 5).

$y = 5$

Find the equation of the line passing through the points (−3, −9) and (−2, 1).

$y = 10x + 21$

Find the equation of the line passing through the points (−4, 2) and (−3, −10).

$y = -12x - 46$

Solutions – Equation of a Line (C)

Find the equation of the line passing through the points (6, 5) and (3, 2).

$y = x - 1$

The gradient of a line is 2 and it passes through the point (0, 8). Find the equation of the line.

$y = 2x + 8$

Find the equation of the vertical line passing through the point (−2, 7).

$x = -2$

Find the equation of the line passing through the points (1, 4) and (0, 2).

$y = 2x + 2$

Solutions – Equation of a Line (D)

Find the equation of the vertical line passing through the point $(-8, 0)$.

$x = -8$

The gradient of a line is -3 and it passes through the point $(0, -5)$. Find the equation of the line.

$y = -3x - 5$

Find the equation of the line passing through the points $(-1, -7)$ and $(-2, -10)$.

$y = 3x - 4$

Find the equation of the line passing through the points $(-6, 9)$ and $(-3, 3)$.

$y = -2x - 3$

Solutions – Equation of a Line (E)

Find the equation of the vertical line passing through the point (4, −8).

$x = 4$

The gradient of a line is 6 and it passes through the point (−6, −5). Find the equation of the line.

$y = 6x + 31$

Find the equation of the line passing through the points (6, −3) and (5, 1).

$y = -4x + 21$

Find the equation of the line passing through the points (4, 3) and (1, 3).

$y = 3$

Solutions – Equation of a Line (F)

Find the equation of the horizontal line passing through the point (−3, 2).

$y = 2$

Find the equation of the line passing through the points (4, −6) and (3, −8).

$y = 2x − 14$

The gradient of a line is −3 and it passes through the point (−3, 1). Find the equation of the line.

$y = −3x − 8$

Find the equation of the line passing through the points (1, 8) and (3, 4).

$y = −2x + 10$

Solutions – Equation of a Line (G)

Find the equation of the vertical line passing through the point (3, −2).

$x = 3$

The gradient of a line is 3 and it passes through the point (−6, −4). Find the equation of the line.

$y = 3x + 14$

Find the equation of the line passing through the points (6, 9) and (−6, 9).

$y = 9$

Find the equation of the line passing through the points (−3, −3) and (1, 1).

$y = x + 0$

Solutions – Equation of a Line (H)

Find the equation of the horizontal line passing through the point (−2, −8).

$y = -8$

Find the equation of the line passing through the points (3, −10) and (4, 8).

$y = 18x - 64$

The gradient of a line is 1 and it passes through the point (6, 0). Find the equation of the line.

$y = x - 6$

Find the equation of the line passing through the points (2, 3) and (6, 3).

$y = 3$

Solutions – Equation of a Line (I)

Find the equation of the line passing through the points $(-2, -10)$ and $(0, -8)$.

$y = x - 8$

The gradient of a line is -3 and it passes through the point $(6, 10)$. Find the equation of the line.

$y = -3x + 28$

Find the equation of the horizontal line passing through the point $(6, -3)$.

$y = -3$

Find the equation of the line passing through the points $(-4, -1)$ and $(-5, 7)$.

$y = -8x - 33$

Solutions – Equation of a Line (J)

Find the equation of the line passing through the points $(-3, -1)$ and $(-2, -1)$.

$y = -1$

Find the equation of the line passing through the points $(-2, -7)$ and $(-5, 8)$.

$y = -5x - 17$

The gradient of a line is -6 and it passes through the point $(6, 0)$. Find the equation of the line.

$y = -6x + 36$

Find the equation of the horizontal line passing through the point $(-4, -3)$.

$y = -3$