# Solutions – Parallel & Perpendicular Lines (A)

Find the equation of the line parallel to $y = -x + 5$ and passing through (4, 2).

$y = -x + 6$

Find the equation of the line perpendicular to $y = x - 7$ and passing through (–1, –3).

$y = -x - 4$

Find the equation of the line perpendicular to $y = 4x - 8$ and passing through (0, 6).

$y = (-1/4)x + 6$

Find the equation of the line parallel to $y = -4x - 1$ and passing through (2, –5).

$y = -4x + 3$

# Solutions – Parallel & Perpendicular Lines (B)

Find the equation of the line perpendicular to $y = -3x + 8$ and passing through (4, 2).

$y = (1/3)x + 2/3$

Find the equation of the line parallel to $y = 2x + 2$ and passing through (2, 5).

$y = 2x + 1$

Find the equation of the line parallel to $y = x - 5$ and passing through (–4, 7).

$y = x + 11$

Find the equation of the line perpendicular to $y = x + 4$ and passing through (2, 9).

$y = -x + 11$

# Solutions – Parallel & Perpendicular Lines (C)

Find the equation of the line perpendicular to $y = -3x + 1$ and passing through $(-4, 7)$.

$y = (1/3)x + 25/3$

Find the equation of the line parallel to $y = -2x - 9$ and passing through $(-6, 3)$.

$y = -2x - 9$

Find the equation of the line parallel to $y = -3x - 8$ and passing through $(4, 0)$.

$y = -3x + 12$

Find the equation of the line perpendicular to $y = x + 9$ and passing through $(4, 5)$.

$y = -x + 9$

# Solutions – Parallel & Perpendicular Lines (D)

Find the equation of the line perpendicular to $y = 2x - 8$ and passing through $(-2, -4)$.

$y = (-1/2)x - 5$

Find the equation of the line perpendicular to $y = x - 2$ and passing through $(-1, -2)$.

$y = -x - 3$

Find the equation of the line parallel to $y = 4x + 1$ and passing through $(-5, 9)$.

$y = 4x + 29$

Find the equation of the line parallel to $y = -x + 5$ and passing through $(-4, -4)$.

$y = -x - 8$

# Solutions – Parallel & Perpendicular Lines (E)

Find the equation of the line parallel to $y = x - 6$ and passing through $(-6, 2)$.

$y = x + 8$

Find the equation of the line perpendicular to $y = -2x - 8$ and passing through $(6, 3)$.

$y = (1/2)x + 0$

Find the equation of the line parallel to $y = -2x + 5$ and passing through $(-2, 10)$.

$y = -2x + 6$

Find the equation of the line perpendicular to $y = 4x + 3$ and passing through $(-2, -10)$.

$y = (-1/4)x - 21/2$

# Solutions – Parallel & Perpendicular Lines (F)

Find the equation of the line perpendicular to $y = 2x - 5$ and passing through $(-1, -2)$.

$y = (-1/2)x - 5/2$

Find the equation of the line parallel to $y = -x - 6$ and passing through $(-2, -8)$.

$y = -x - 10$

Find the equation of the line parallel to $y = 3x + 7$ and passing through $(-3, 4)$.

$y = 3x + 13$

Find the equation of the line perpendicular to $y = -3x - 5$ and passing through $(3, 1)$.

$y = (1/3)x + 0$

# Solutions – Parallel & Perpendicular Lines (G)

Find the equation of the line perpendicular to $y = 4x + 2$ and passing through $(-6, 2)$.

$y = (-1/4)x + 1/2$

Find the equation of the line parallel to $y = x + 3$ and passing through $(5, 9)$.

$y = x + 4$

Find the equation of the line parallel to $y = 4x + 9$ and passing through $(-3, 1)$.

$y = 4x + 13$

Find the equation of the line perpendicular to $y = 4x + 3$ and passing through $(-5, -8)$.

$y = (-1/4)x - 37/4$

# Solutions – Parallel & Perpendicular Lines (H)

Find the equation of the line perpendicular to $y = -2x + 8$ and passing through $(-5, -2)$.

$y = (1/2)x + 1/2$

Find the equation of the line parallel to $y = -4x - 8$ and passing through $(1, -9)$.

$y = -4x - 5$

Find the equation of the line parallel to $y = 4x - 8$ and passing through $(4, 2)$.

$y = 4x - 14$

Find the equation of the line perpendicular to $y = x + 8$ and passing through $(-2, -6)$.

$y = -x - 8$

# Solutions – Parallel & Perpendicular Lines (I)

Find the equation of the line perpendicular to $y = -2x - 5$ and passing through $(4, -3)$.

$y = (1/2)x - 5$

Find the equation of the line parallel to $y = 3x + 7$ and passing through $(-3, -10)$.

$y = 3x - 1$

Find the equation of the line perpendicular to $y = 2x + 2$ and passing through $(3, -7)$.

$y = (-1/2)x - 11/2$

Find the equation of the line parallel to $y = x - 3$ and passing through $(-3, -9)$.

$y = x - 6$

# Solutions – Parallel & Perpendicular Lines (J)

Find the equation of the line parallel to $y = 4x + 7$ and passing through $(-4, -7)$.

$y = 4x + 9$

Find the equation of the line parallel to $y = 2x + 8$ and passing through $(-1, -2)$.

$y = 2x + 0$

Find the equation of the line perpendicular to $y = -4x + 3$ and passing through $(-1, -2)$.

$y = (1/4)x - 7/4$

Find the equation of the line perpendicular to $y = -3x - 9$ and passing through $(-6, 1)$.

$y = (1/3)x + 3$