Solutions – Quadratic Inequalities (A)

Solve $-x^2 + 9 \geq 0$

$-3 \leq x \leq 3$

Solve $4x^2 + 20x \leq 0$

$-5 \leq x \leq 0$

Solve $4x^2 + 20x - 24 \geq 0$

$x \leq -6$ or $x \geq 1$

Solve $-x^2 + 2x + 8 > 0$

$-2 < x < 4$

Solutions – Quadratic Inequalities (B)

Solve $-x^2 - 8x - 7 > 0$

$-7 < x < -1$

Solve $x^2 - 3x - 4 < 0$

$-1 < x < 4$

Solve $5x^2 + 5x - 30 > 0$

$x < -3$ or $x > 2$

Solve $-2x^2 - 12x + 14 < 0$

$x < -7$ or $x > 1$

Solutions – Quadratic Inequalities (C)

Solve $-2x^2 + 18 > 0$

$-3 < x < 3$

Solve $-x^2 + 5x + 6 < 0$

$x < -1$ or $x > 6$

Solve $3x^2 - 15x + 18 \leq 0$

$2 \leq x \leq 3$

Solve $x^2 - 4x - 5 \leq 0$

$-1 \leq x \leq 5$

Solutions – Quadratic Inequalities (D)

Solve $-x^2 - 2x + 15 > 0$

$-5 < x < 3$

Solve $5x^2 - 60x + 135 \leq 0$

$3 \leq x \leq 9$

Solve $x^2 + 7x < 0$

$-7 < x < 0$

Solve $-5x^2 - 75x - 270 > 0$

$-9 < x < -6$

Solutions – Quadratic Inequalities (E)

Solve $-4x^2 + 40x - 36 < 0$

$x < 1$ or $x > 9$

Solve $-5x^2 + 55x - 120 < 0$

$x < 3$ or $x > 8$

Solve $-x^2 - 8x - 15 \leq 0$

$x \leq -5$ or $x \geq -3$

Solve $-x^2 + 2x + 15 < 0$

$x < -3$ or $x > 5$

Solutions – Quadratic Inequalities (F)

Solve $-x^2 + 16 < 0$

$x < -4$ or $x > 4$

Solve $-2x^2 + 8x + 10 > 0$

$-1 < x < 5$

Solve $-x^2 - x + 2 \geq 0$

$-2 \leq x \leq 1$

Solve $-5x^2 + 50x - 80 < 0$

$x < 2$ or $x > 8$

Solutions – Quadratic Inequalities (G)

Solve $2x^2 + 4x - 6 \leq 0$

$-3 \leq x \leq 1$

Solve $-x^2 + 8x - 15 \leq 0$

$x \leq 3$ or $x \geq 5$

Solve $-x^2 + 4x \geq 0$

$0 \leq x \leq 4$

Solve $4x^2 - 20x + 16 < 0$

$1 < x < 4$

Solutions – Quadratic Inequalities (H)

Solve $-x^2 + 8x \geq 0$

$0 \leq x \leq 8$

Solve $x^2 + 5x + 4 < 0$

$-4 < x < -1$

Solve $-3x^2 + 45x - 108 \leq 0$

$x \leq 3$ or $x \geq 12$

Solve $5x^2 - 125 < 0$

$-5 < x < 5$

Solutions – Quadratic Inequalities (I)

Solve $x^2 - 6x - 7 > 0$

$x < -1$ or $x > 7$

Solve $x^2 - 6x - 7 \leq 0$

$-1 \leq x \leq 7$

Solve $-3x^2 - 3x + 60 < 0$

$x < -5$ or $x > 4$

Solve $-2x^2 - 8x + 10 > 0$

$-5 < x < 1$

Solutions – Quadratic Inequalities (J)

Solve $x^2 - 8x + 7 \leq 0$

$1 \leq x \leq 7$

Solve $-3x^2 - 18x - 24 \leq 0$

$x \leq -4$ or $x \geq -2$

Solve $x^2 + 5x - 6 < 0$

$-6 < x < 1$

Solve $-4x^2 - 48x - 128 \leq 0$

$x \leq -8$ or $x \geq -4$