

Solutions – Quadratic Inequalities (A)

Solve $4x^2 - 40x \leq 0$

$0 \leq x \leq 10$

Solve $x^2 - 5x > 0$

$x < 0$ or $x > 5$

Solve $4x^2 - 16x + 12 \leq 0$

$1 \leq x \leq 3$

Solve $3x^2 + 6x - 45 > 0$

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

Solve $-x^2 + 6x - 8 \geq 0$

$2 \leq x \leq 4$

Solve $x^2 + 9x + 14 > 0$

$x < -7$ or $x > -2$

Solutions – Quadratic Inequalities (B)

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

$-7 \leq x \leq -1$

Solve $5x^2 + 55x + 150 \geq 0$

$x \leq -6$ or $x \geq -5$

Solve $-2x^2 + 50 \geq 0$

$-5 \leq x \leq 5$

Solve $-4x^2 + 36x - 72 \geq 0$

$3 \leq x \leq 6$

Solve $-x^2 - 14x - 48 < 0$

$x < -8$ or $x > -6$

Solve $x^2 + 6x + 5 > 0$

$x < -5$ or $x > -1$

Solutions – Quadratic Inequalities (C)

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

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

Solve $x^2 - 12x + 27 > 0$

$x < 3$ or $x > 9$

Solve $-3x^2 + 12x + 15 > 0$

$-1 < x < 5$

Solve $5x^2 - 55x + 90 \leq 0$

$2 \leq x \leq 9$

Solve $-x^2 - 5x + 6 \leq 0$

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

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

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

Solutions – Quadratic Inequalities (D)

Solve $-x^2 + 5x - 4 \geq 0$

$1 \leq x \leq 4$

Solve $3x^2 - 6x - 24 > 0$

$x < -2$ or $x > 4$

Solve $-2x^2 + 26x - 44 < 0$

$x < 2$ or $x > 11$

Solve $x^2 + 13x + 42 < 0$

$-7 < x < -6$

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

$-3 < x < 2$

Solve $5x^2 + 45x + 70 < 0$

$-7 < x < -2$

Solutions – Quadratic Inequalities (E)

Solve $x^2 - 6x + 8 \leq 0$

$2 \leq x \leq 4$

Solve $x^2 - 14x + 33 > 0$

$x < 3$ or $x > 11$

Solve $2x^2 + 28x + 80 \leq 0$

$-10 \leq x \leq -4$

Solve $-3x^2 + 3x \geq 0$

$0 \leq x \leq 1$

Solve $-x^2 - 10x - 24 < 0$

$x < -6$ or $x > -4$

Solve $-3x^2 - 27x - 42 \leq 0$

$x \leq -7$ or $x \geq -2$

Solutions – Quadratic Inequalities (F)

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

$-3 < x < 2$

Solve $x^2 + 14x + 48 \leq 0$

$-8 \leq x \leq -6$

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

$x \leq -2$ or $x \geq -1$

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

$-8 \leq x \leq -4$

Solve $3x^2 + 33x + 72 > 0$

$x < -8$ or $x > -3$

Solve $5x^2 + 50x + 80 \geq 0$

$x \leq -8$ or $x \geq -2$

Solutions – Quadratic Inequalities (G)

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

$-1 < x < 2$

Solve $5x^2 + 40x + 60 \geq 0$

$x \leq -6$ or $x \geq -2$

Solve $-x^2 + 14x - 33 \leq 0$

$x \leq 3$ or $x \geq 11$

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

$x < 0$ or $x > 2$

Solve $-5x^2 - 35x + 40 > 0$

$-8 < x < 1$

Solve $5x^2 + 20x < 0$

$-4 < x < 0$

Solutions – Quadratic Inequalities (H)

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

$2 < x < 3$

Solve $x^2 - 5x > 0$

$x < 0$ or $x > 5$

Solve $2x^2 - 16x - 18 \leq 0$

$-1 \leq x \leq 9$

Solve $x^2 - 11x + 18 \leq 0$

$2 \leq x \leq 9$

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

$-5 \leq x \leq -1$

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

$1 \leq x \leq 5$

Solutions – Quadratic Inequalities (I)

Solve $-2x^2 - 26x - 80 \leq 0$

$x \leq -8$ or $x \geq -5$

Solve $2x^2 + 22x + 60 \geq 0$

$x \leq -6$ or $x \geq -5$

Solve $x^2 - 4x > 0$

$x < 0$ or $x > 4$

Solve $-x^2 + 4x - 3 > 0$

$1 < x < 3$

Solve $-x^2 - 7x \geq 0$

$-7 \leq x \leq 0$

Solve $-5x^2 + 45x > 0$

$0 < x < 9$

Solutions – Quadratic Inequalities (J)

Solve $x^2 - 2x - 3 > 0$

$x < -1$ or $x > 3$

Solve $-x^2 + 10x - 21 \leq 0$

$x \leq 3$ or $x \geq 7$

Solve $2x^2 + 16x + 14 \leq 0$

$-7 \leq x \leq -1$

Solve $5x^2 + 30x + 25 < 0$

$-5 < x < -1$

Solve $x^2 - 3x - 10 \geq 0$

$x \leq -2$ or $x \geq 5$

Solve $5x^2 - 20x - 60 < 0$

$-2 < x < 6$