

Solving Quadratic Inequalities

L2S1

Solve each quadratic inequality.

1) $18x^2 + 23x + 5 \leq 0$

2) $12x^2 + 10x - 12 > 0$

3) $-9x^2 + 29x - 6 \geq 0$

4) $4x^2 + 20x - 11 < 0$

5) $7x^2 + 11x + 4 > 0$

6) $17x^2 + 15x - 2 \geq 0$

7) $5x^2 - 15x + 10 < 0$

8) $-8x^2 + 6x - 1 \leq 0$

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Solve each quadratic inequality.

1) $18x^2 + 23x + 5 \leq 0$

$$-1 \leq x \leq -\frac{5}{18}$$

2) $12x^2 + 10x - 12 > 0$

$$x < -\frac{3}{2} \text{ or } x > \frac{2}{3}$$

3) $-9x^2 + 29x - 6 \geq 0$

$$\frac{2}{9} \leq x \leq 3$$

4) $4x^2 + 20x - 11 < 0$

$$-\frac{11}{2} < x < \frac{1}{2}$$

5) $7x^2 + 11x + 4 > 0$

$$x < -1 \text{ or } x > -\frac{4}{7}$$

6) $17x^2 + 15x - 2 \geq 0$

$$x \leq -1 \text{ or } x \geq \frac{2}{17}$$

7) $5x^2 - 15x + 10 < 0$

$$1 < x < 2$$

8) $-8x^2 + 6x - 1 \leq 0$

$$x \leq \frac{1}{4} \text{ or } x \geq \frac{1}{2}$$