Name:

Date:

Solve Quadratic Inequalities

Solve each quadratic inequality.

1) $x^2 - 5x - 6 < 0$

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

3) $-8x^2 + 6x - 1 \leq 0$

4) $-x^2 - 5x + 6 > 0$

5) $x^2 - 1 < 0$

6) $x^2 > 5x + 6$

7) $3x^2 + 7x \leq 5x^2 + 3x - 6$

8) $2x^2 + 2x - 8 > x^2$

9) $17x^2 + 15x - 2 \geq 0$

10) $4x^2 + 20x - 11 < 0$

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1) $x^2 - 5x - 6 < 0$

$-1 < x < 6$

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

$1 < x < 2$

3) $-8x^2 + 6x - 1 \leq 0$

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

4) $-x^2 - 5x + 6 > 0$

$-6 < x < 1$

5) $x^2 - 1 < 0$

$-1 < x < 1$

6) $x^2 > 5x + 6$

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

7) $3x^2 + 7x \leq 5x^2 + 3x - 6$

$x \leq -1$ **or** $x \geq 3$

8) $2x^2 + 2x - 8 > x^2$

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

9) $17x^2 + 15x - 2 \geq 0$

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

10) $4x^2 + 20x - 11 < 0$

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