

## Solving Quadratic Inequalities

L1S3

Solve each quadratic inequality.

1)  $x^2 + 2x - 3 < 0$

2)  $x^2 - 10x + 9 > 0$

3)  $-x^2 + 9 > 0$

$6x - 4 \leq 0$

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

$1x + 10 \geq 0$

7)  $x^2 - x - 12 > 0$

8)  $x^2 - 16 < 0$

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**Answer key****Solving Quadratic Inequalities**

L1S3

Solve each quadratic inequality.

1)  $x^2 + 2x - 3 < 0$

2)  $x^2 - 10x + 9 > 0$

**$-3 < x < 1$**

**$x < 1$  or  $x > 9$**

3)  $-x^2 + 9 \leq 0$

$6x - 4 \leq 0$

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**$1 \leq x \leq 2$**

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

5)  $x^2 - 6x + 8 < 0$

$3x + 10 \geq 0$

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**$-1 \leq x \leq 1$**

**$0$  or  $x \geq -1$**

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7)  $x^2 - x - 12 > 0$

8)  $x^2 - 16 < 0$

**$x < -3$  or  $x > 4$**

**$-4 < x < 4$**