

**Solving Quadratic Inequalities**

L3S1

Solve each quadratic inequality.

1)  $2x^2 + 2x - 8 > x^2$

2)  $5x^2 + 11x + 3 < 2x^2 + x - 4$

3)  $3x^2 - 5x \geq 4x$

**PREVIEW**

$+ 3x + 2$

Gain complete access to the largest  
collection of worksheets in all subjects!

5)  $-x^2 - 10x + 1$

Members, please  
log in to  
download this  
worksheet.Not a member?  
Please sign up to  
gain complete  
access.

$> 3x^2 + x$

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

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

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)

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

L3S1

Solve each quadratic inequality.

1)  $2x^2 + 2x - 8 > x^2$

2)  $5x^2 + 11x + 3 < 2x^2 + x - 4$

$x < -4 \text{ or } x > 2$

$-\frac{7}{3} < x < -1$

3)  $3x^2 - 5x \geq 4x$

**PREVIEW**

$+ 3x + 2$

Gain complete access to the largest  
collection of worksheets in all subjects!

$-3 \leq x \leq -2$

$x \leq 1$

5)  $-x^2 - 10x + 1$

Members, please  
log in to  
download this  
worksheet.Not a member?  
Please sign up to  
gain complete  
access.

$> 3x^2 + x$

$2 < x < 6$

$\text{or } x > 4$

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)

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

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

$x \leq -1 \text{ or } x \geq 3$

$x < -1 \text{ or } x > 6$