

Solving Quadratic Inequalities

L3S2

Solve each quadratic inequality.

1) $x^2 + 6x - 6 < 1$

2) $-4x^2 - 3 > -7x^2 + 5x - 5$

3) $2x^2 \leq 7x^2 + x$

$+ 6 \geq 2x^2 + 3$

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

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

7) $4x^2 > x^2 + 3x + 6$

8) $7x^2 + 8x < 4x^2 + 3$

PREVIEW

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

Members, please
log in to
download this
worksheet.

Not a member?
Please sign up to
gain complete
access.

www.mathworksheets4kids.com

Answer key**Solving Quadratic Inequalities**

L3S2

Solve each quadratic inequality.

1) $x^2 + 6x - 6 < 1$

2) $-4x^2 - 3 > -7x^2 + 5x - 5$

$-7 < x < 1$

$x < \frac{2}{3} \text{ or } x > 1$

3) $2x^2 \leq 7x^2 + x$

PREVIEW

$+ 6 \geq 2x^2 + 3$

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

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

$x \geq 3$

5) $-x^2 - 2x - 5 \geq 0$

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

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

$x \leq -\frac{3}{2} \text{ or } x \geq 1$

www.mathworksheets4kids.com

$\text{or } x \geq 1$

7) $4x^2 > x^2 + 3x + 6$

8) $7x^2 + 8x < 4x^2 + 3$

$x < -1 \text{ or } x > 2$

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