

Solving Quadratic Inequalities

L3S3

Solve each quadratic inequality.

1) $6x^2 \geq x^2 + 17x + 12$

2) $-8x^2 + 1 > -10x^2 + 7x - 4$

3) $4x^2 - 3x + 2$

$x + 3 < -10x - 3$

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

≥ 14

7) $11x^2 - x - 1 > 12x^2 - 3$

8) $3x^2 + 2x + 2 \leq 2x^2 - x$

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**

L3S3

Solve each quadratic inequality.

1) $6x^2 \geq x^2 + 17x + 12$

2) $-8x^2 + 1 > -10x^2 + 7x - 4$

$x \leq -\frac{3}{5} \text{ or } x \geq 4$

$x < 1 \text{ or } x > \frac{5}{2}$

3) $4x^2 - 3x + 2 > 0$

PREVIEW

$x + 3 < -10x - 3$

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

$1 < x < 4$

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

5) $-2x^2 \leq 5x^2 - 14$

Members, please log in to download this worksheet.

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

$x \geq 14$

$x \leq -1 \text{ or } x \geq 7$

www.mathworksheets4kids.com

$x \geq 7$

7) $11x^2 - x - 1 > 12x^2 - 3$

8) $3x^2 + 2x + 2 \leq 2x^2 - x$

$-2 < x < 1$

$-2 \leq x \leq -1$