

Solving Quadratic Inequalities

Solve these inequalities.

- (a) $(x - 3)(x - 6) > 0$
- (b) $(x - 3)(x - 6) < 0$
- (c) $(x + 3)(x - 6) < 0$
- (d) $(x + 3)(x + 4) \geq 0$
- (e) $x(x + 3) > 0$
- (f) $(2x - 1)(x + 3) < 0$

Solving Quadratic Inequalities

Solve these inequalities.

- (a) $(x - 3)(x - 6) > 0$
- (b) $(x - 3)(x - 6) < 0$
- (c) $(x + 3)(x - 6) < 0$
- (d) $(x + 3)(x + 4) \geq 0$
- (e) $x(x + 3) > 0$
- (f) $(2x - 1)(x + 3) < 0$

Solve these inequalities.

- (a) $x^2 - 6x + 16 > 0$
- (b) $x^2 + 7x + 12 \geq 0$
- (c) $x^2 - 7x + 12 < 0$
- (d) $x^2 - 9x + 20 > 0$
- (e) $x^2 - 16 < 0$
- (f) $x^2 - 9x < 0$

Solve these inequalities.

- (a) $x^2 - 6x + 16 > 0$
- (b) $x^2 + 7x + 12 \geq 0$
- (c) $x^2 - 7x + 12 < 0$
- (d) $x^2 - 9x + 20 > 0$
- (e) $x^2 - 16 < 0$
- (f) $x^2 - 9x < 0$

Solve these inequalities.

- (a) $x^2 - 2x > 35$
- (b) $x^2 + 2x < 48$
- (c) $2x^2 > 11x - 12$
- (d) $16x - x^2 \leq 6x$

Solve these inequalities.

- (a) $x^2 - 2x > 35$
- (b) $x^2 + 2x < 48$
- (c) $2x^2 > 11x - 12$
- (d) $16x - x^2 \leq 6x$

Find the solution sets for these inequalities.

- (a) $\frac{x^2+12}{2} > 4x$
- (b) $(x - 3)(2x + 3) < 2x(1 - 2x) - 5$
- (c) $(x + 5)^2 \geq 1$
- (d) $(5 - x)(x + 3) \leq 1$

Find the solution sets for these inequalities.

- (a) $\frac{x^2+12}{2} > 4x$
- (b) $(x - 3)(2x + 3) < 2x(1 - 2x) - 5$
- (c) $(x + 5)^2 \geq 1$
- (d) $(5 - x)(x + 3) \leq 1$