

## 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)  $(2x - 1)(x + 3) < 0$

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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)  $x^2 - 9x < 0$

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Solve these inequalities.

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

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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)  $(5 - x)(x + 3) \leq 1$

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