

**Solving Quadratic Inequalities**

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Solve the following inequalities.

1)  $x^2 > 49$

2)  $5x^2 - 3 > 122$

3)  $3x^2 + 5 < 53$

4)  $200 - 2x^2 < 72$

5)  $x^2 - 8x + 15 > 0$

6)  $x^2 - 10x + 21 > 0$

7)  $x^2 + 6x - 16 \geq 0$

8)  $x^2 - 12x + 32 < 0$

9)  $x^2 + 5x - 36 < 0$

10)  $2x^2 + x - 6 \leq 0$

11)  $2x^2 - 9x - 5 > 0$

12)  $2x^2 + 6x \geq 0$

13)  $5x^2 - 15x < 0$

14)  $x(x + 3) < 10$

15)  $3x^2 < 3(2x + 3)$