

Intermediate Algebra Skill

Solving Quadratic Inequalities: Quadratic Expression Already Factored; RHS 0

Solve the following Quadratic Inequalities:

$$1) (x+3)(x+2) > 0$$

$$2) (x+3)(x+1) \geq 0$$

$$3) (x+4)(x-6) < 0$$

$$4) (x+2)(x-7) \leq 0$$

$$5) (z+5)(z-4) \geq 0$$

$$6) (a+5)(a-2) > 0$$

$$7) (y-3)(y-5) \leq 0$$

$$8) (y-3)(y-5) < 0$$

$$9) (2x+3)(2x-1) > 0$$

$$10) (3n+1)(3n-2) \geq 0$$

$$11) (2x-1)(3x-4) < 0$$

$$12) (y+1)(5y+3) < 0$$

Answers to Solving Quadratic Inequalities: Quadratic Expression Already Factored; RHS 0

1) $(-\infty, -3) \cup (-2, \infty)$

2) $(-\infty, -3] \cup [-1, \infty)$

3) $(-4, 6)$

4) $[-2, 7]$

5) $(-\infty, -5] \cup [4, \infty)$

6) $(-\infty, -5) \cup (2, \infty)$

7) $[3, 5]$

8) $(3, 7)$

9) $(-\infty, -\frac{3}{2}) \cup \left(\frac{1}{2}, \infty\right)$

10) $\left(-\infty, -\frac{1}{3}\right] \cup \left[\frac{2}{3}, \infty\right)$

11) $\left(\frac{1}{2}, \frac{4}{3}\right)$

12) $\left(-1, -\frac{3}{5}\right)$