Intermediate Algebra Skill

Solving Quadratic Inequalities: Quadratic Expression Not Factored; RHS 0

Solve the following Quadratic Inequalities:

1) $x^2+5x+6>0$

2) $x^2+4x+3\geq 0$

3) $x^2-2x-24<0$

4) $x^2-5x-14\leq 0$

5) $y^2+y-20\geq 0$

6) $y^2+3y-10>0$

7) $y^2-8y+15\leq 0$

8) $y^2-10y+21<0$

9) $4n^2+4n-3>0$

10) $9n^2-3n-2\geq 0$

11) $6n^2-11n+4<0$

12) $5n^2+8n+3<0$

Answers to Solving Quadratic Inequalities: Quadratic Expression Not 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) $\left(-\infty,-\frac{3}{2}\right)\cup\left(\frac{1}{2},\infty\right)$

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

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

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