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

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

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

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