

## 4.5 Choosing a Method

**Describe when to use each method.**

1) Factoring

2) Quadratic formula

3) Take a square root

4) Complete the square

5) Which method is your favorite? Which method is the most difficult for you?

**For each question below, list which methods can be used to solve. YOU DO NOT NEED TO SOLVE THE PROBLEM.**

6)  $x^2 + 4x + 6 = 0$

7)  $-x^2 + 12x + 64 = 0$

8)  $-8n^2 + 4 = 0$

9)  $x^2 + 12x - 3 = 0$

10)  $12x^2 - 6x - 1 = 0$

11)  $6r^2 + 8r - 8 = -11$

$$12) -2x^2 + 23 = 11$$

$$13) 6k^2 - 6k - 20 = -8$$

14) What does the equation need to look like before you solve?

**Solve each equation using whichever method you'd like.**

$$15) p^2 + 2p - 137 = 6$$

$$16) 2p^2 + 4p + 20 = 8$$

$$17) 2x^2 - 18 = -4$$

$$18) n^2 - n - 30 = -10$$

$$19) 2n^2 - 2n - 14 = -11$$

$$20) n^2 - 10n - 13 = -12$$