

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Basic Skills**  
**Solving by Square Roots**

Solve the quadratic by using square roots, if possible. If necessary, write your answer in simplest radical form (no decimals).

1.  $x^2 - 4 = 0$

2.  $x^2 - 50 = 0$

3.  $4x^2 + 4 = 24$

4.  $3x^2 - 27 = 0$

5.  $5x^2 - 14 = 26$

6.  $12x^2 + 22 = 46$

7.  $x^2 - 9 = 3x^2 - 45$

8.  $x^2 - 13 = -29$

9.  $8x^2 - 31 = 33$

10.  $x^2 - 12x = 121 - 12x$

11.  $4x^2 - 25 = 75$

12.  $32 - x^2 = 16$