

**Practice 10-7**

## Using the Quadratic Formula

Use the quadratic formula to solve each equation. If the equation has no real solutions write *no real solutions*. If necessary, round your answers to the nearest hundredth.

1.  $x^2 + 8x + 5 = 0$

4.  $a^2 - 3a - 154 = 0$

7.  $r^2 - 35r + 70 = 0$

10.  $4n^2 - 81 = 0$

13.  $6w^2 - 23w + 7 = 0$

16.  $x^2 + 5x - 90 = 0$

19.  $6h^2 + 77h - 13 = 0$

22.  $27f^2 = 12$

25.  $a^2 - 2a - 360 = 0$

28.  $4x^2 + 7x - 9 = 0$

31.  $m^2 - 40m + 100 = 0$

34.  $4d^2 + 29d - 60 = 0$

37.  $14x^2 = 56$

40.  $2y^2 = 39y - 17$

43.  $8h^2 - 38h + 9 = 0$

46.  $x^2 + 3x + 8 = 0$

49.  $4s^2 + 8s = 221$

53. A ball is thrown upward from a height of 15 ft with an initial upward velocity of 5 ft/s. Use the formula  $h = -16t^2 + vt + s$  to find how long it will take for the ball to hit the ground.