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## Practice

Using the Quadratic Formula

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

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

$$x^{-} + 8x + 3 = 0$$

4

$$x^2 - 36 = 0$$

$$-3a - 154 = 0$$
  
$$-35r + 70 = 0$$

II

5. 
$$4p^2 - 12p - 91 = 0$$

**6.** 
$$5m^2 + 9m = 126$$

μ

 $d^2$ 

£

١

8

0

7. 
$$r^2 - 35r + 70 = 0$$
  
10.  $4n^2 - 81 = 0$ 

**8.** 
$$y^2 + 6y - 247 = 0$$

9. 
$$x^2 + 12x - 40 =$$

0

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

11. 
$$x^2 + 13x + 30 = 0$$

**12.** 
$$a^2 - a = 132$$

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

**14.** 
$$4x^2 + 33x = 27$$

**15.** 
$$7s^2 - 7 = 0$$

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

**17.** 
$$5b^2 - 20 = 0$$

**22.** 
$$27f^2 = 12$$

**20.** 
$$5y^2 = 17y + 12$$

**18.** 
$$4x^2 - 3x + 6 =$$

0

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

0

**23.** 
$$4x^2 - 52x + 133 =$$

O

24

+

36x +

8

Ш

0

**21.** 
$$g^2 - 15g = 54$$

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

**26.** 
$$x^2 + 10x + 40 = 0$$

**27.** 
$$t^2 - 10t = 39$$

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

**29.** 
$$2c^2 - 39c + 135 = 0$$
  
**32.**  $8x^2 + 25x + 19 = 0$ 

29.

39c

+

135

0

30.

 $4x^2$ 

+

33x +

340

II

0

**33.** 
$$36w^2 - 289 = 0$$

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

**35.** 
$$4z^2 + 43z + 108 = 0$$

**39.** 
$$r^2 + r - 650 = 0$$

36

 $3x^{2}$ 

19x + 40 =

0

**37.** 
$$14x^2 = 56$$
  
**40.**  $2y^2 = 39y -$ 

6

H

39y

**38.** 
$$32x^2 - 18 = 0$$
  
**41.**  $5a^2 - 9a + 5 = 0$ 

38

18

11

0

**42.** 
$$x^2 = 9x + 120$$

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

43

 $8h^2$ 

38h

+

9

ij

0

4

Ш

245

**44.** 
$$20x^2 = 245$$
  
**47.**  $6m^2 - 13m = 1$ 

**45.** 
$$9h^2 - 72h = -119$$

**46.** 
$$x^2 + 5x + 8 = 0$$

**48.** 
$$9x^2 - 81 = 0$$

- 49 +Š 11 221
- 50.  $6p^2$ +25p119 =

0

- <u>5</u>  $2s^{2}$ 59s + 17 0
- 52 What are the dimensions of the painting? A rectangular painting has dimensions x and x + 10. The painting is in a frame 2 in. wide. The total area of the picture and the frame is 900 in.<sup>2</sup>.

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- ង it will take for the ball to hit the ground. velocity of 5 ft/s. Use the formula h A ball is thrown upward from a height of 15 ft with an inital upward  $-16t^{2}$ +  $\nu t + s$  to find how long
- 54 fountain will be a sidewalk that is 3.5 ft wide. The total area that the fountain and sidewalk can be is 700 ft<sup>2</sup>. What are the dimensions of Your community wants to put a square fountain in a park. Around the the fountain?
- 55 the base of the triangle. What are the dimensions of the pennant? flagpole in their yard. The height of the triangle is 10 in. less than 5 times The Garys have a triangular pennant of area 420 in. 2 flying from the

