LESSON 9.4

Practice continued For use with pages 575-580

28.
$$6n^2 - 15n = 0$$

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 29. $-8y^2 - 10y = 0$

30.
$$-10b^2 + 25b = 0$$

31.
$$8c^2 = 4c$$

32.
$$30r^2 = -15r$$

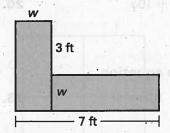
33.
$$-24y^2 = 9y$$

34. Diving Board A diver jumps from a diving board that is 24 feet above the water. The height of the diver is given by

$$h = -16(t - 1.5)(t + 1)$$

where the height h is measured in feet, and the time t is measured in seconds. When will the diver hit the water? Can you see a quick way to find the answer? Explain.

- Dog To catch a frisbee, a dog leaps into the air with an initial velocity of 14 feet per second.
 - a. Write a model for the height of the dog above the ground.
 - **b.** After how many seconds does the dog land on the ground?
- Desktop Areas You have two components to the desktop where you do your homework that fit together into an L shape. The two components have the same area.
 - a. Write an equation that relates the areas of the desktop components.



- **b.** Find the value of w.
- c. What is the combined area of the desktop components?