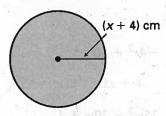
LESSON 9.7

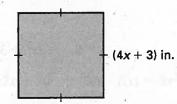
Practice continued For use with pages 600-605

Find the value of x in the geometric shape.

25. Area = 144π cm²



26. Area = 225 in.^2



10. 16.2 - 16.2

- 27. Measuring Tape A measuring tape drops from a roof that is 16 feet above the ground. After how many seconds does the measuring tape land on the ground?
- 28. Playground A curved ladder that children can climb on can be modeled by the equation

$$y = -\frac{1}{20}x^2 + x$$

where x and y are measured in feet.



a. Make a table of values that shows the height of the ladder for x = 0, 5, 10, 15, and 20 feet from the left end.

Cliff Diving 'A cliff diver lumps from a lodge 96 seer above the ocean with an initial abound selective of 16 feet per second. How long will it take upon the diver enters

- **b.** For what additional values of x does the equation make sense? Explain.
- c. Plot the ordered pairs in the table from part (a) as points in the coordinate plane. Connect the points with a smooth curve.
- **d.** At approximately what distance from the left end does the ladder reach a height of 5 feet? Check your answer algebraically.

