For Exercises 1–3, find the area of each figure to the nearest square unit.
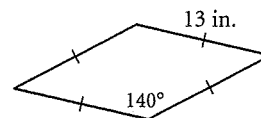
1. Area ≈ _____
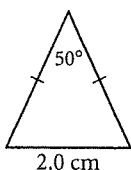
2. Area ≈ _____
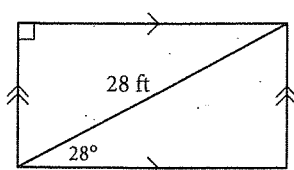
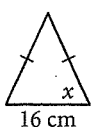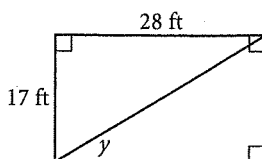**3.** Area ≈ _____

For Exercises 4–9, find each unknown to the nearest tenth of a unit.

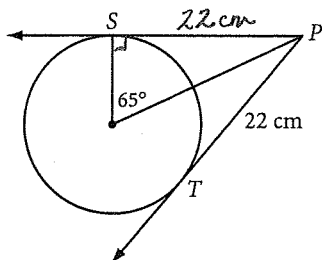**4.** Area = 88 cm²

$x \approx$ _____
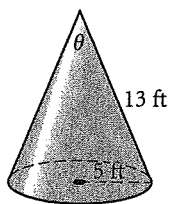
5. $y \approx$ _____

6. $a \approx$ _____
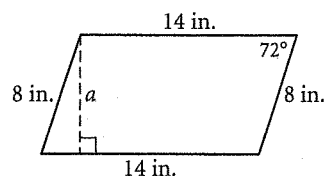
7. $\overrightarrow{PS}$ and $\overrightarrow{PT}$ are tangents.

Diameter ≈ _____

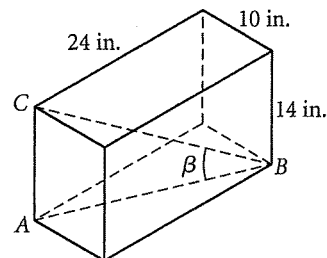**8.** Right cone

$\theta \approx$ _____

9. Right rectangular prism

$m\angle ABC = \beta \approx$ _____

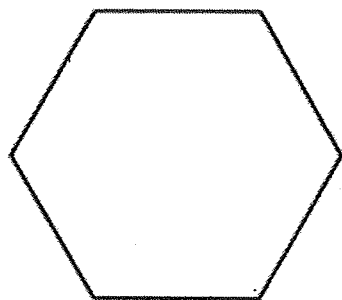In Exercises 10–12, give each answer to the nearest tenth of a unit.

10. A ladder 7 m long stands on level ground and makes a 73° angle with the ground as it rests against a wall. How far from the wall is the base of the ladder?

11. To see the top of a building 1000 feet away, you look up 24° from the horizontal. What is the height of the building?

12. A guy wire is anchored 12 feet from the base of a pole. The wire makes a 58° angle with the ground. How long is the wire?
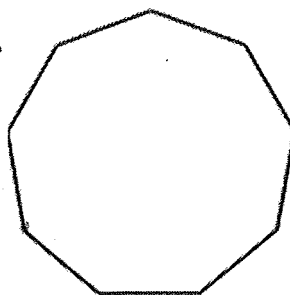
Find the area of each regular polygon. Round your answer to the nearest tenth.

13.

9 cm

14.

Perimeter = 108 mi