Name



the measure of θ to the nearest degree.

17. _____







Name

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USES) Objective G

In 19-24, round the angle measure to the nearest tenth of a degree.

- 19. A ramp is to be built up to a doorway. Its slope is to be $\frac{1}{13}$. What angle will the ramp make with the horizontal?
- **20.** As shown below, a plane flying at 31,000 ft begins its descent 125 mi from the airport. If the angle of depression is constant, find its measure.



- **21.** Refer to the diagram at the right. A garage is 8 ft above the level street. The driveway from the street to the garage is 45 ft long. Find the driveway's angle of incline.
- **22**. Refer to the diagram at the right. If a tower 18 m high casts a shadow 9.5 m long, what is the angle of elevation of the sun?



9.5 m

- **23.** As shown at the right, the base of a 24-ft ladder is placed 8 ft from a building.
 - **a.** What angle does the ladder make with the level ground?
 - **b.** How high above the ground is the top of the ladder?

