**5-1 Lesson Master**

**SKILLS** Objective A

In 1–4, refer to \(\triangle HAT\) at the right. Find each.

1. \(\cos H\)  
2. \(\sin A\)  
3. \(\cos A\)  
4. \(\tan H\)

In 5–8, approximate to the nearest hundredth.

5. \(\tan 12.2^\circ\)  
6. \(\cos 156^\circ 21'\)  
7. \(\sin \frac{6\pi}{5}\)  
8. \(\cos \frac{3\pi}{5}\)

**SKILLS** Objective C

In 9 and 10, refer to \(\triangle TAR\). To the nearest hundredth, find

9. \(TA\)
10. \(TR\)

**USES** Objective H

11. A ladder against a wall makes a 70° angle with the ground. If the base of the ladder is 3 feet from the wall, find the length of the ladder.

12. The largest of the ancient Egyptian pyramids, built for the King Khufu, is a regular square pyramid with base edges of length 230.4 meters and a height of 147 meters. What is the slant height of the pyramid?

13. When a 3-foot-wide door is open 130°, how far is its end from the wall?

14. Shrouds (heavy ropes) were used to secure the masts of large sailing ships in the 1700s. Assume that a 52-foot shroud runs from the deck to the top of a 45-foot mast. What acute angle will the shroud make with the top of the mast?