

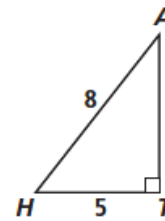
5-1 Lesson Master

Questions on SPUR Objectives
See Student Edition pages 354–357 for objectives.

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. $\tan H$ _____



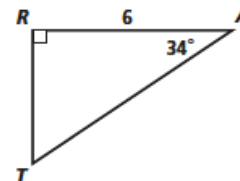
In 5–8, approximate to the nearest hundredth.

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

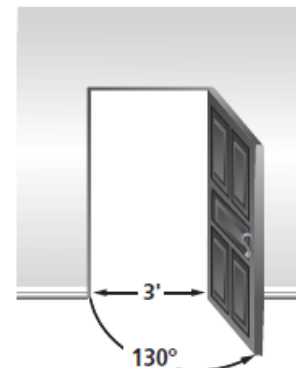
11. A ladder against a wall makes a 70° angle with the ground. If the base of the ladder is 3 feet from the wall, find the length of the ladder.

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?



DRAW A PICTURE!

+ §5-1 #,9,12-15 from FST book

- 1) $\frac{5}{8}$ 2) $\frac{5}{8}$ 3) $\frac{\sqrt{39}}{8}$ 4) $\frac{\sqrt{39}}{5}$ 5) 0.22 6) -0.92 7) -0.59 8) -0.31 9) 7.24 10) 4.05
11) 8.7714 ft. 12) 186.7620 m 13) 2.2981 ft 14) 30.0733°