

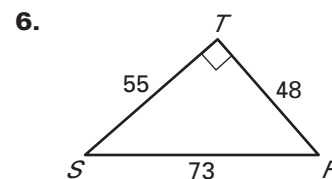
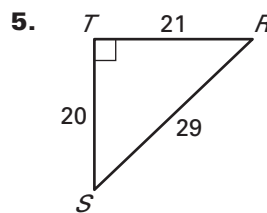
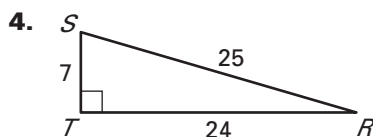
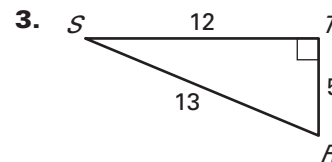
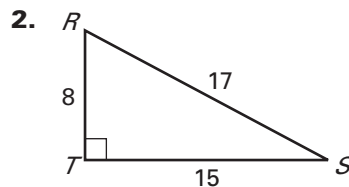
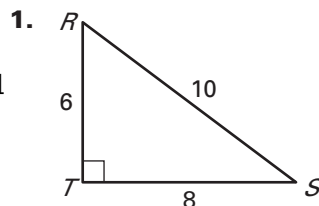
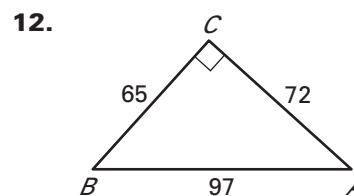
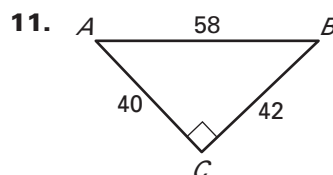
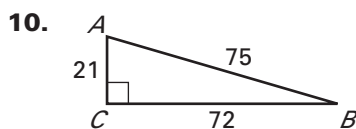
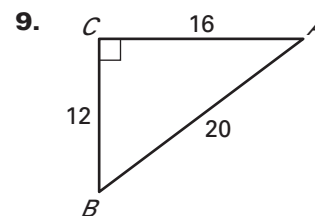
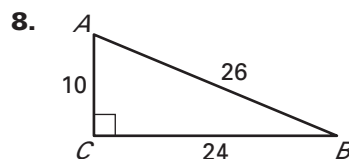
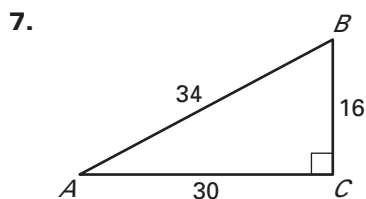
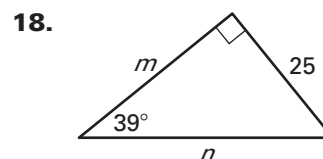
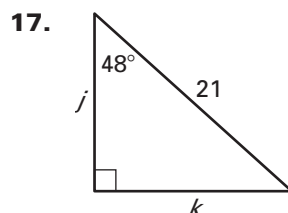
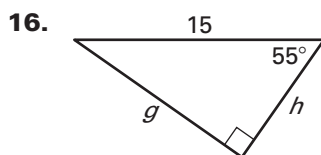
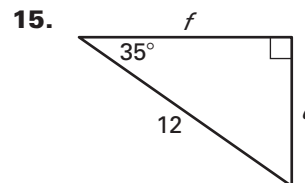
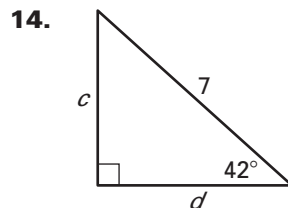
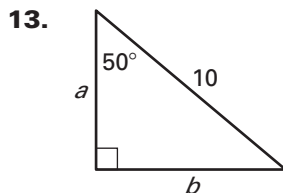
**LESSON**  
**7.6****Practice A**

For use with pages 473–480

If you turn this in on time: do the odds.

If you turn this in late or

you are doing it over: do the evens.

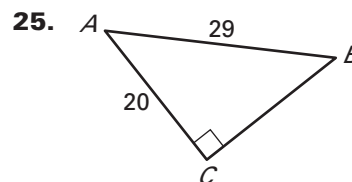
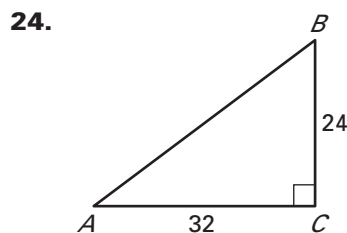
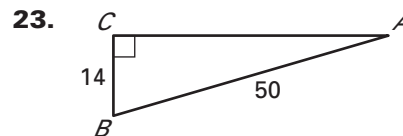
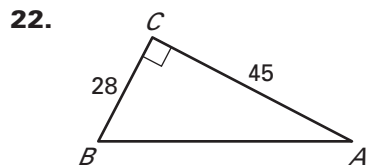
**Find  $\sin R$  and  $\sin S$ . Write each answer as a fraction and as a decimal.****Round to four decimal places, if necessary.****Find  $\cos A$  and  $\cos B$ . Write each answer as a fraction and as a decimal.****Round to four decimal places, if necessary.****Use a sine or cosine ratio to find the value of each variable.****Round decimals to the nearest tenth.**Teacher  
Score:

LESSON  
7.6**Practice A** *continued*  
For use with pages 473–480

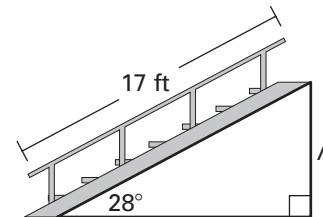
Use the  $45^\circ$ - $45^\circ$ - $90^\circ$  Triangle Theorem or the  $30^\circ$ - $60^\circ$ - $90^\circ$  Triangle Theorem to find the sine and cosine of the angle.

19. a  $30^\circ$  angle                      20. a  $45^\circ$  angle                      21. a  $60^\circ$  angle

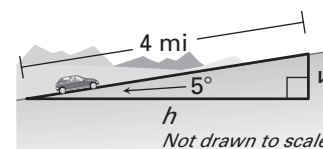
Find the unknown side length. Then find  $\sin A$  and  $\cos A$ . Write each answer as a fraction in simplest form and as a decimal. Round to four decimal places, if necessary.



26. **Staircase** A staircase has an angle of elevation of  $28^\circ$  and covers a total distance of 17 feet. To the nearest foot, what is the vertical height  $h$  covered by the staircase?



27. **Highway** You are traveling along a stretch of highway that has a slight grade with an angle of inclination of  $5^\circ$ . After traveling for 4 miles, what is the vertical  $v$  and horizontal  $h$  change in feet? (1 mi = 5280 ft) Round your answer to the nearest foot.



28. **Ladder** You lean a 16 foot ladder against the wall. If the ladder makes an angle of  $70^\circ$  with the ground, how far away from the wall is the base of the ladder? Round your answer to the nearest tenth of a foot.

