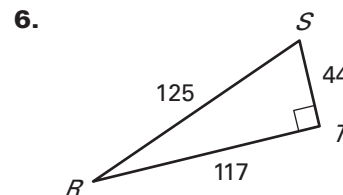
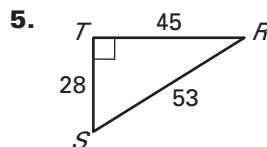
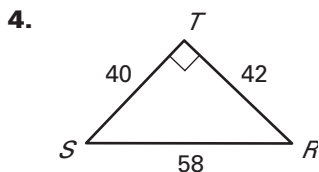
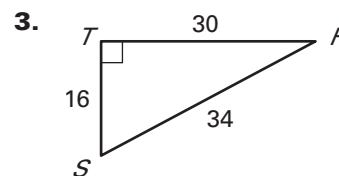
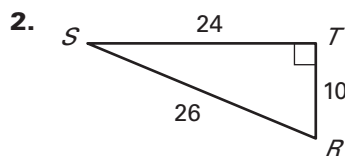
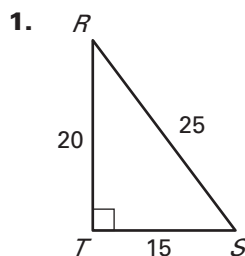


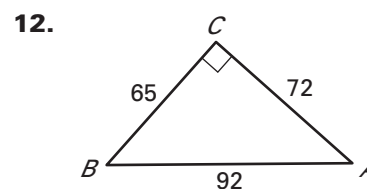
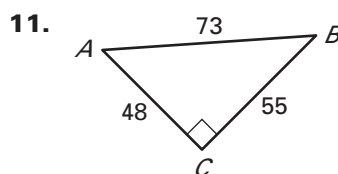
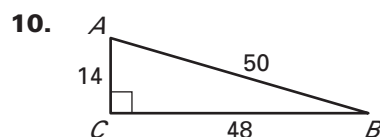
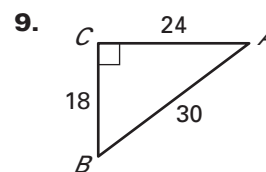
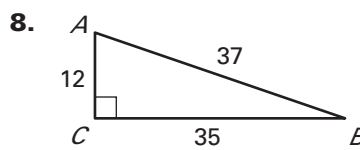
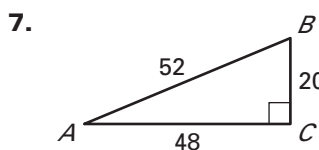
LESSON
7.6**Practice**

For use with pages 473–480

Find $\sin R$ and $\sin S$. Write each answer as a fraction and as a decimal.
Round to four decimal places, if necessary.



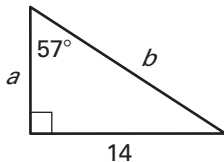
Find $\cos A$ and $\cos B$. Write each answer as a fraction and as a decimal.
Round to four decimal places, if necessary.



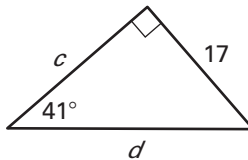
LESSON
7.6
Practice *continued*
For use with pages 473–480

Use a cosine or sine ratio to find the value of each variable. Round decimals to the nearest tenth.

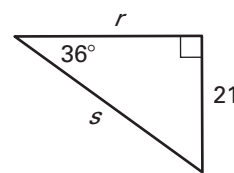
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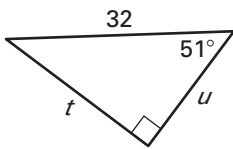
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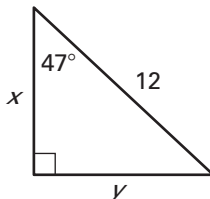
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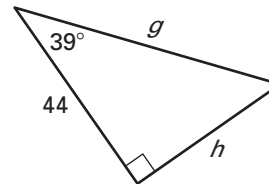
16.



17.



18.

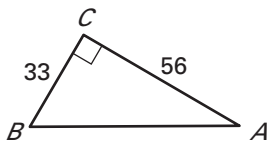


Use the $45^\circ\text{-}45^\circ\text{-}90^\circ$ Triangle Theorem or the $30^\circ\text{-}60^\circ\text{-}90^\circ$ Triangle Theorem to find the sine and cosine of the angle.

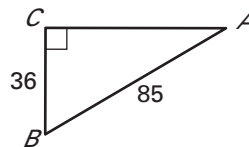
19. a 30° angle20. a 45° angle21. a 60° angle

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.

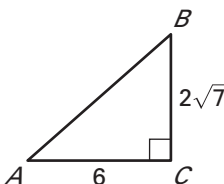
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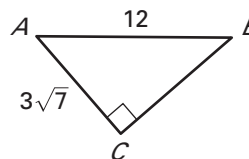
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24.

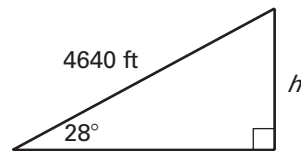


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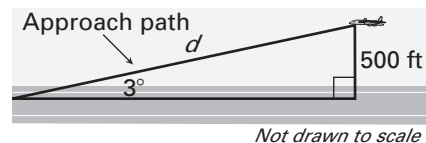


LESSON
7.6**Practice** *continued*
For use with pages 473–480

- 26. Ski Lift** A chair lift on a ski slope has an angle of elevation of 28° and covers a total distance of 4640 feet. To the nearest foot, what is the vertical height h covered by the chair lift?



- 27. Airplane Landing** You are preparing to land an airplane. You are on a straight line approach path that forms a 3° vertical angle with the runway. What is the distance d along this approach path to your touchdown point when you are 500 feet above the ground? Round your answer to the nearest foot.



- 28. Extension Ladders** You are using extension ladders to paint a chimney that is 33 feet tall. The length of an extension ladder ranges in one-foot increments from its minimum length to its maximum length. For safety, you should always use an angle of about 75.5° between the ground and the ladder.

- Your smallest extension ladder has a maximum length of 17 feet. How high does this ladder safely reach on a vertical wall?
- You place the base of the ladder 3 feet from the chimney. How many feet long should the ladder be?
- To reach the top of the chimney, you need a ladder that reaches 30 feet high. How many feet long should the ladder be?

