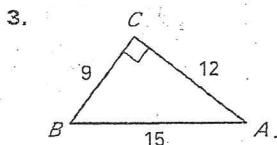
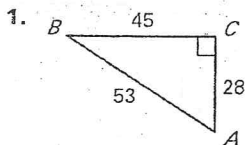


Name _____

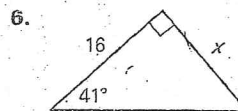
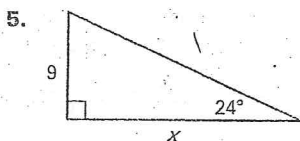
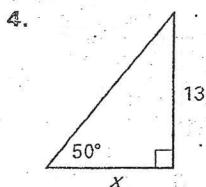
Date _____

LESSON 7.5 Practice
For use with pages 466–472

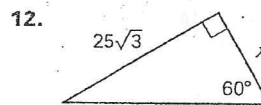
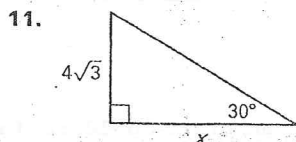
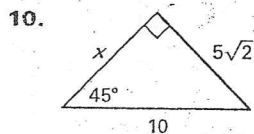
Find $\tan A$ and $\tan B$. Write each answer as a decimal rounded to four decimal places.



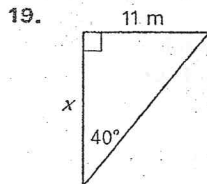
Find the value of x to the nearest tenth.



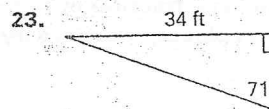
Find the value of x using the definition of tangent. Then find the value of x using the 45° - 45° - 90° Triangle Theorem or the 30° - 60° - 90° Triangle Theorem. Compare the results.



Find the area of the triangle. Round your answer to the nearest tenth.

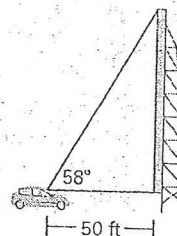


Find the perimeter of the triangle. Round to the nearest tenth.



of Houghton Mifflin Company.

26. **Drive-in Movie** You are 50 feet from the screen at a drive-in movie. Your eye is on a horizontal line with the bottom of the screen and the angle of elevation to the top of the screen is 58° . How tall is the screen?

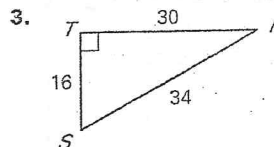
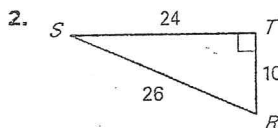
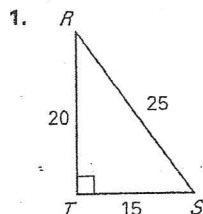


Name _____

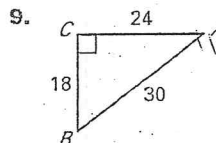
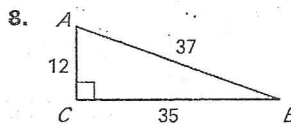
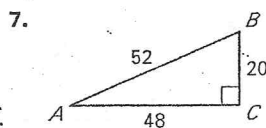
Date _____

LESSON 7.6 Practice
For use with pages 473-480

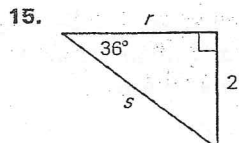
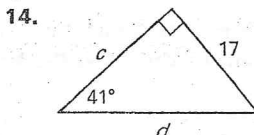
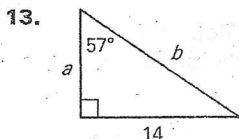
Find $\sin R$ and $\sin S$. Write each answer as a fraction and as a decimal. Round to four decimal places, if necessary.



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



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



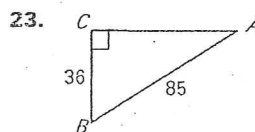
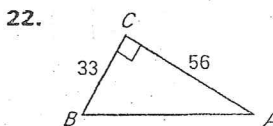
Use the 45° - 45° - 90° Triangle Theorem or the 30° - 60° - 90° Triangle Theorem to find the sine and cosine of the angle.

19. a 30° angle

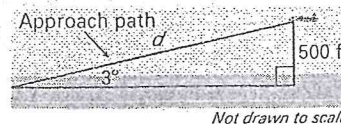
20. a 45° angle

21. 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.



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.



Not drawn to scale