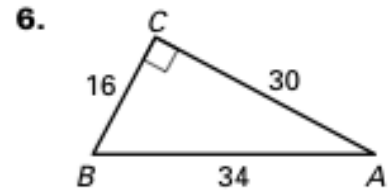
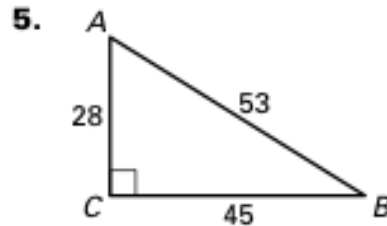
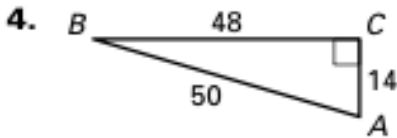
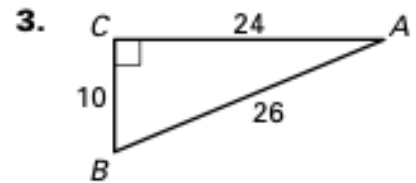
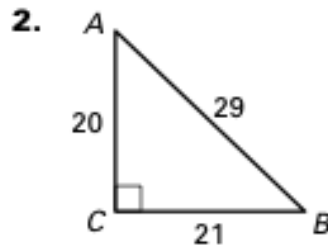
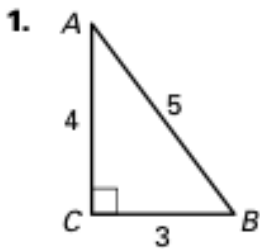


Geometry

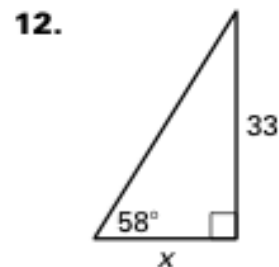
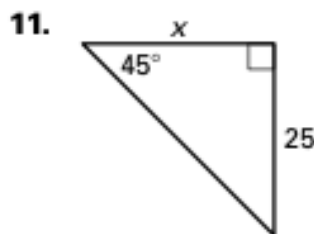
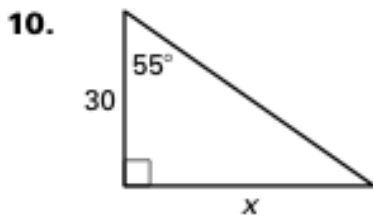
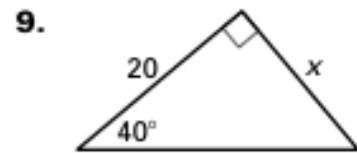
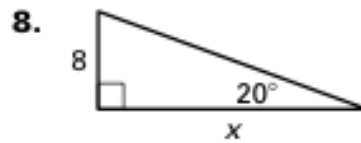
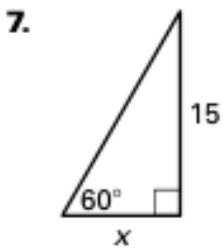
Worksheet 7.5

Name _____

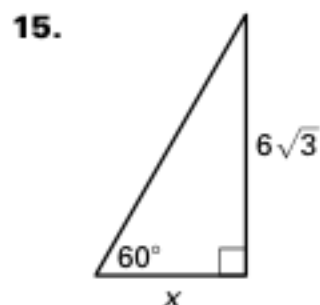
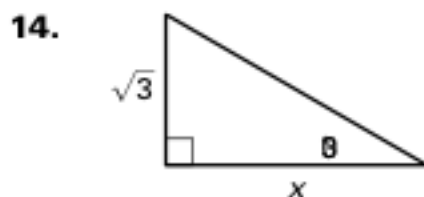
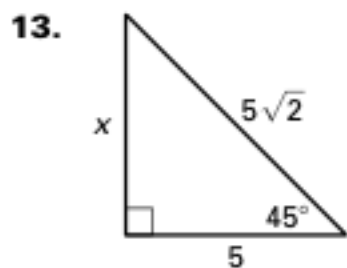
Find $\tan A$ and $\tan B$. Write each answer as a fraction and as a decimal rounded to four places.



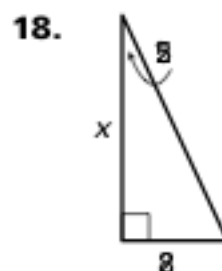
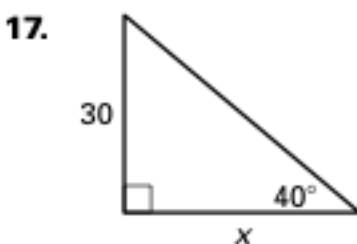
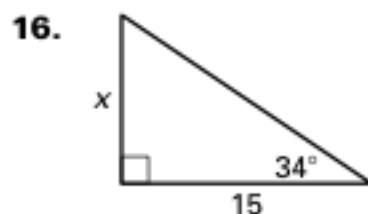
Find the value of x to the nearest tenth.



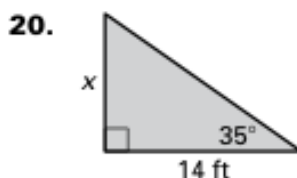
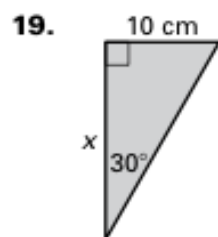
Find the value of x using the definition of tangent. Then find the value of x using the 45° - 45° - 90° Triangle Theorem or the 30° - 60° - 90° Triangle Theorem. *Compare* the results.



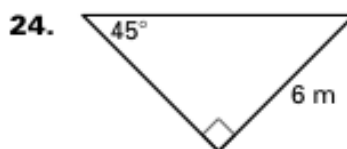
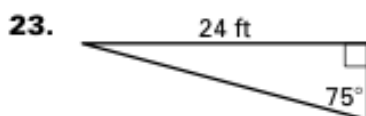
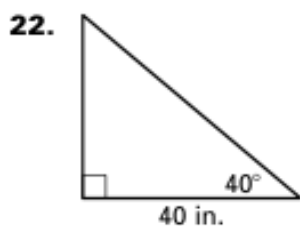
Use a tangent ratio to find the value of x . Round to the nearest tenth.



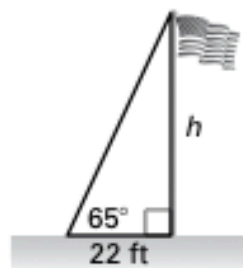
Find the area of the triangle. Round to the nearest tenth.



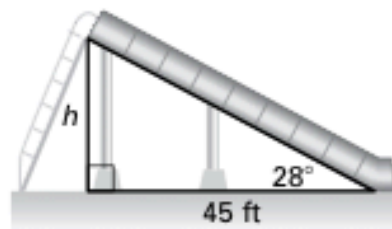
Find the perimeter of the triangle. Round to the nearest tenth.



- 25. Flagpole** To calculate the height h of a flagpole, you move 22 feet from the base and record the angle of elevation to the top to be 65° . Find the flagpole's height to the nearest foot.



- 26. Water Slide** The angle of elevation from the base to the top of a water slide is about 28° . The horizontal length of the slide is about 45 feet. Find the height h of the slide.



- 27. Distance** You are standing near the Washington Monument which is 555 feet tall. The angle of elevation from your position to the top of the monument is 45° . How far are you from the monument?

