

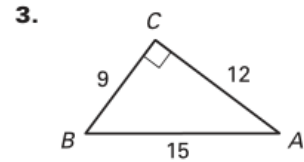
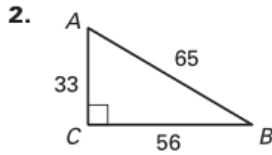
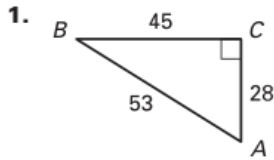
Name _____

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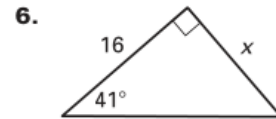
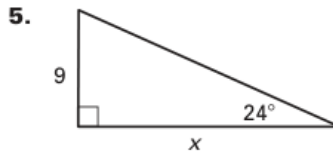
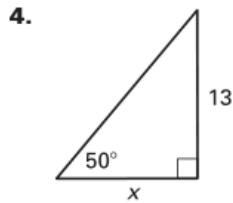
LESSON 7.5 Practice

For use with the lesson "Apply the Tangent Ratio"

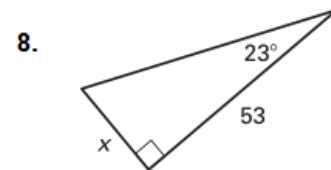
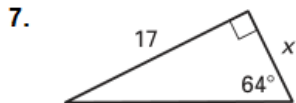
Find $\tan A$ and $\tan B$. Write each answer as a decimal rounded to four decimal places.



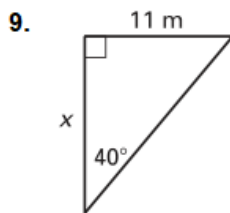
Find the value of x to the nearest tenth.



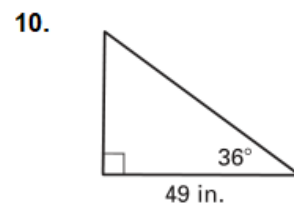
Use a tangent ratio to find the value of x . Round to the nearest tenth.



Find the area of the triangle.



Find the perimeter of the triangle.

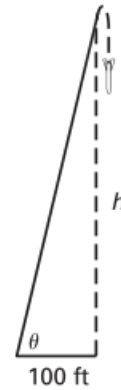


- 11. Model Rockets** To calculate the height h reached by a model rocket, you move 100 feet from the launch point and record the angle of elevation θ to the rocket at its highest point. The values of θ for three flights are given below. Find the rocket's height to the nearest foot for the given θ in each flight.

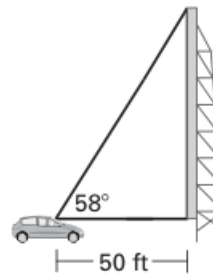
a. $\theta = 77^\circ$

b. $\theta = 81^\circ$

c. $\theta = 83^\circ$



- 12. 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?



- 13. Skyscraper** You are a block away from a skyscraper that is 780 feet tall. Your friend is between the skyscraper and yourself. The angle of elevation from your position to the top of the skyscraper is 42° . The angle of elevation from your friend's position to the top of the skyscraper is 71° . To the nearest foot, how far are you from your friend?

