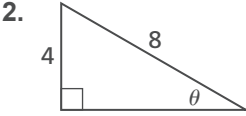
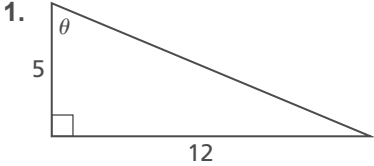


8.1

Practice A

In Exercises 1 and 2, evaluate the six trigonometric functions of the angle θ .

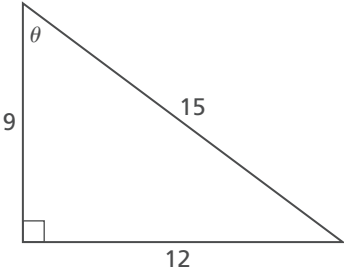


3. Let θ be an acute angle of a right triangle. Use the two trigonometric functions $\sin \theta = \frac{3}{7}$ and $\cot \theta = \frac{2\sqrt{10}}{3}$ to sketch and label the triangle. Then evaluate the other four trigonometric functions of θ .

In Exercises 4–6, let θ be an acute angle of a right triangle. Evaluate the other five trigonometric functions of θ .

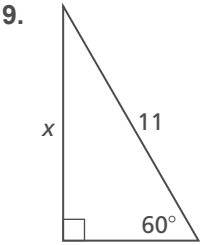
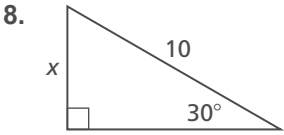
4. $\sin \theta = \frac{4}{11}$ 5. $\cos \theta = \frac{5}{6}$ 6. $\tan \theta = \frac{3}{4}$

7. Describe and correct the error in finding $\tan \theta$ of the triangle below.



$\times \tan \theta = \frac{\text{adj.}}{\text{opp.}} = \frac{9}{12} = \frac{3}{4}$

In Exercises 8 and 9, find the value of x for the right triangle.



10. A parasail rider is attached to a boat with a rope that is 80 feet long. The angle of elevation from the boat to the parasail rider is 36° . Estimate the parasail rider's height above the boat. Round your answer to the nearest tenth.