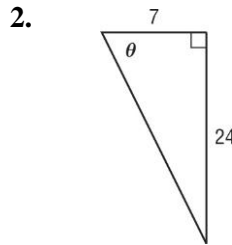
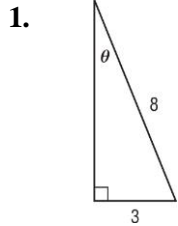


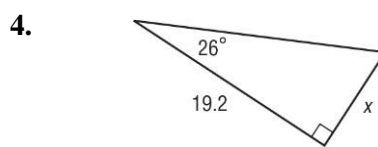
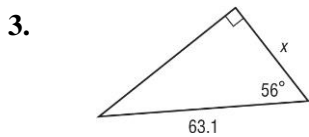
4-1 Practice

Right Triangle Trigonometry

Find the exact values of the six trigonometric functions of θ .



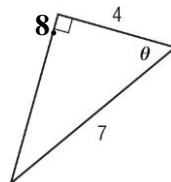
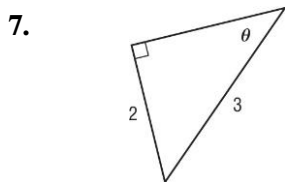
Find the value of x . Round to the nearest tenth, if necessary.



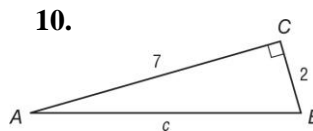
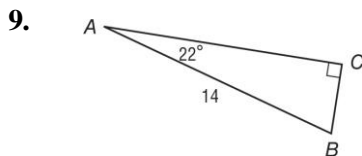
5. On a college campus, the library is 80 yards due east of the dormitory and the recreation center is due north of the library. The college is constructing a sidewalk from the dormitory to the recreation center. The sidewalk will be at a 56° angle with the current sidewalk between the dormitory and the library. To the nearest yard, how long will the new sidewalk be?

6. If $\cot A = 8$, find the exact values of the remaining trigonometric functions for the acute angle A .

Find the measure of angle θ . Round to the nearest degree, if necessary.



Solve each triangle. Round side measures to the nearest tenth and angle measures to the nearest degree.



11. **SWIMMING** The swimming pool at Perris Hill Plunge is 50 feet long and 25 feet wide. If the bottom of the pool is slanted so that the water depth is 3 feet at the shallow end and 15 feet at the deep end, what is the angle of elevation at the bottom of the pool?