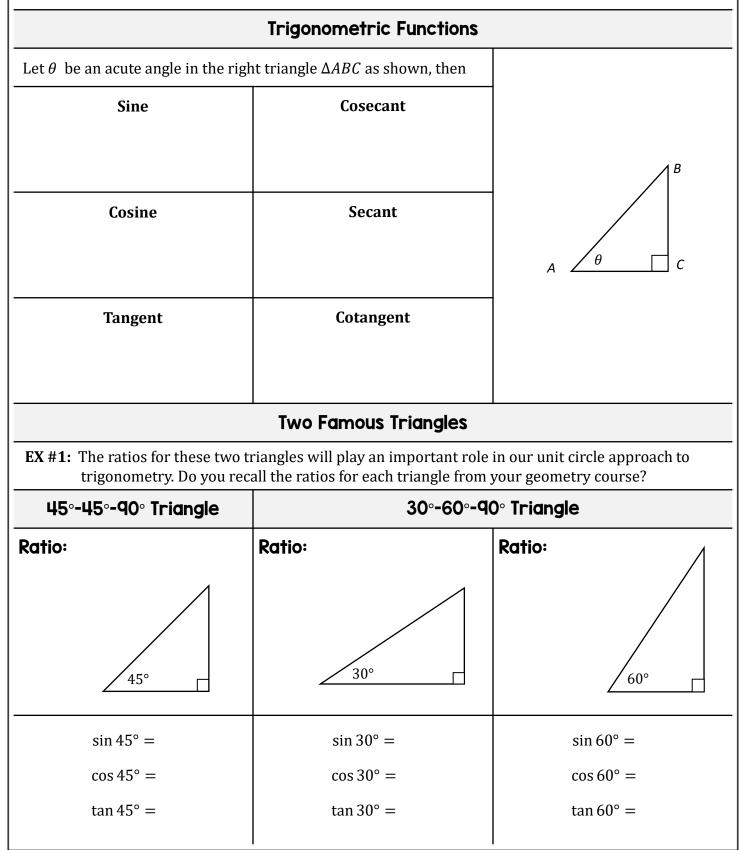
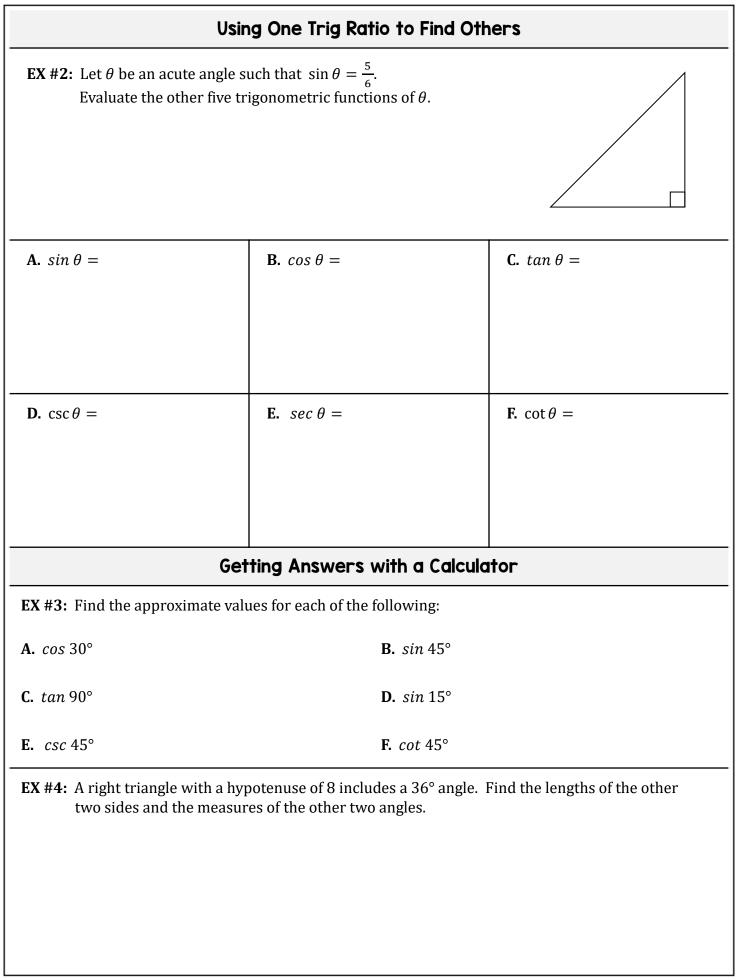
Lesson 2: Right Triangle Trigonometry

We are now ready to explore trigonometric functions from two famous right triangles and how these relate to the unit circle. Similar geometric figures have the same shape. *Specifically, their angle measures are equal, and their sides are proportional.*



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EX #5: The sides of a rectangle are 8 in and 25 in. What is the measure, to the <i>nearest degree</i> , of the angle formed by the short side and a diagonal of the rectangle?
EX #6: Sketch a right triangle corresponding to $\tan \theta = 3$. Use the Pythagorean Theorem to determine the third side and then find the other five trigonometric functions of θ .
Application: Finding the Height of a Building
EX #7: From a point 340-feet away from the base of the Peachtree Center Plaza in Atlanta, the angle of elevation to the top of the building is 65°. Find the height of the building.
65° 340 ft

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