Name: \_\_\_\_\_\_ Date: \_\_\_\_\_

## Student Exploration: Sine, Cosine, and Tangent Ratios

	Get the Gizmo ready:	- 1
Activity A: Sine	<ul> <li>On the SINE tab, set m∠A to 30°.</li> <li>Check that Show side lengths is turned on.</li> <li>Drag point C as far as possible to the right.</li> </ul>	- TED 000

- In ΔABC, BC is the opposite leg because it is opposite ∠A.
  - A. What are the lengths of each side? AC = \_\_\_\_\_ BC = \_\_\_\_ AB =
  - B. When  $m \angle A = 30^\circ$ , what is the ratio of BC to AB? \_\_\_\_\_
  - C. Drag point C to the left. Notice that m∠A stays the same, so the new triangle is similar to the original. For two different positions of point C, record BC, AB, and BC AB

Position 1			Position 2		
BC	AB	BC AB	BC	AB	BC AB
What do	you notice?				

- Drag point C all the way to the right so that the length of the hypotenuse AB is 14. Turn on Show sine computation. The sine of angle A (or "sin A") is the ratio of the opposite leg to the hypotenuse: sin A = opposite hypotenuse.
  - A. What is sin 30"? \_\_\_\_\_
  - B. Turn off Show sine computation. Set m∠A to 20°. What is sin 20°? \_\_\_\_\_\_

Check your work by turning on Show sine computation.

 Turn off Show sine computation. Set m∠A to each of the following angles, and use the side lengths and a calculator to find the sine of each angle. Use the Gizmo to check.

# **Tangent Ratio Gizmo Answers**

**Brendan G. Carr** 

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