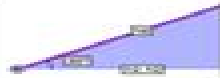


Name: _____ Date: _____

Student Exploration: Sine, Cosine, and Tangent Ratios

Activity A: Sine	Get the Gizmo ready: - On the SINE tab, set $m\angle A$ to 30°. - Check that Show side lengths is turned on. - Drag point C as far as possible to the right.	
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1. In $\triangle ABC$, $\overline{BC}$ is the *opposite leg* because it is opposite $\angle A$.

A. What are the lengths of each side? $AC = \underline{\hspace{2cm}}$ $BC = \underline{\hspace{2cm}}$ $AB = \underline{\hspace{2cm}}$

B. When $m\angle A = 30^\circ$, what is the ratio of BC to AB ? $\underline{\hspace{2cm}}$

C. Drag point C to the left. Notice that $m\angle A$ stays the same, so the new triangle is similar to the original. For two different positions of point C, record BC , AB , and $\frac{BC}{AB}$.

Position 1

BC $\underline{\hspace{1cm}}$ AB $\underline{\hspace{1cm}}$ $\frac{BC}{AB}$ $\underline{\hspace{1cm}}$

Position 2

BC $\underline{\hspace{1cm}}$ AB $\underline{\hspace{1cm}}$ $\frac{BC}{AB}$ $\underline{\hspace{1cm}}$

What do you notice? $\underline{\hspace{4cm}}$

2. Drag point C all the way to the right so that the length of the hypotenuse $\overline{AB}$ 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: $\sin A = \frac{\text{opposite}}{\text{hypotenuse}}$.

A. What is $\sin 30^\circ$? $\underline{\hspace{2cm}}$

B. Turn off **Show sine computation**. Set $m\angle A$ to 20° . What is $\sin 20^\circ$? $\underline{\hspace{2cm}}$

Check your work by turning on **Show sine computation**.

3. Turn off **Show sine computation**. Set $m\angle A$ 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.

$\sin 15^\circ = \underline{\hspace{2cm}}$ $\sin 45^\circ = \underline{\hspace{2cm}}$ $\sin 60^\circ = \underline{\hspace{2cm}}$ $\sin 75^\circ = \underline{\hspace{2cm}}$

Tangent Ratio Gizmo Answers

Minjie Lin

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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