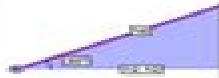


Name: \_\_\_\_\_ Date: \_\_\_\_\_

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

<b>Activity A:</b> <b>Sine</b>	<b>Get the Gizmo ready:</b> <ul style="list-style-type: none"> <li>On the <b>SINE</b> tab, set <math>m\angle A</math> to <math>30^\circ</math>.</li> <li>Check that <b>Show side lengths</b> is turned on.</li> <li>Drag point C as far as possible to the right.</li> </ul>	
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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?  $AC =$  \_\_\_\_\_  $BC =$  \_\_\_\_\_  $AB =$  \_\_\_\_\_

B. When  $m\angle A = 30^\circ$ , what is the ratio of  $BC$  to  $AB$ ? \_\_\_\_\_

C. Drag point C to the left. Notice that  $m\angle A$  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**

$BC$  \_\_\_\_\_  $AB$  \_\_\_\_\_  $\frac{BC}{AB}$  \_\_\_\_\_

**Position 2**

$BC$  \_\_\_\_\_  $AB$  \_\_\_\_\_  $\frac{BC}{AB}$  \_\_\_\_\_

What do you notice? \_\_\_\_\_

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  $\sin 30^\circ$ ? \_\_\_\_\_

B. Turn off **Show sine computation**. Set  $m\angle A$  to  $20^\circ$ . What is  $\sin 20^\circ$ ? \_\_\_\_\_

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.

$\sin 15^\circ =$  \_\_\_\_\_  $\sin 45^\circ =$  \_\_\_\_\_  $\sin 60^\circ =$  \_\_\_\_\_  $\sin 75^\circ =$  \_\_\_\_\_

# Tangent Ratio Gizmo Answers

**Kathleen Armour**

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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## **Table of Contents Tangent Ratio Gizmo Answers**

1. Understanding the eBook Tangent Ratio Gizmo Answers
  - The Rise of Digital Reading Tangent Ratio Gizmo Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Tangent Ratio Gizmo Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Tangent Ratio Gizmo Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Tangent Ratio Gizmo Answers
  - Personalized Recommendations
  - Tangent Ratio Gizmo Answers User Reviews and Ratings
  - Tangent Ratio Gizmo Answers and Bestseller Lists
5. Accessing Tangent Ratio Gizmo Answers Free and Paid eBooks
  - Tangent Ratio Gizmo Answers Public Domain eBooks
  - Tangent Ratio Gizmo Answers eBook Subscription Services
  - Tangent Ratio Gizmo Answers Budget-Friendly Options
6. Navigating Tangent Ratio Gizmo Answers eBook Formats

- ePub, PDF, MOBI, and More
- Tangent Ratio Gizmo Answers Compatibility with Devices
- Tangent Ratio Gizmo Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Tangent Ratio Gizmo Answers
  - Highlighting and Note-Taking Tangent Ratio Gizmo Answers
  - Interactive Elements Tangent Ratio Gizmo Answers
- 8. Staying Engaged with Tangent Ratio Gizmo Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Tangent Ratio Gizmo Answers
- 9. Balancing eBooks and Physical Books Tangent Ratio Gizmo Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Tangent Ratio Gizmo Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Tangent Ratio Gizmo Answers
  - Setting Reading Goals Tangent Ratio Gizmo Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Tangent Ratio Gizmo Answers
  - Fact-Checking eBook Content of Tangent Ratio Gizmo Answers
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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