

HW 68: Trig Ratio Worksheet

Answer Key

The trig. ratios, *sine*, *cosine*, and *tangent* are based on properties of right triangles. The function values depend on the measure of the angle.

$$\text{sine } \theta = \sin \theta = (\text{side opposite } \theta) / \text{hypotenuse}$$

$$\text{cosine } \theta = \cos \theta = (\text{side adjacent } \theta) / \text{hypotenuse}$$

$$\text{tangent } \theta = \tan \theta = (\text{side opposite } \theta) / (\text{side adjacent } \theta)$$

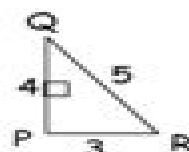
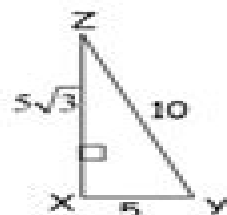


In triangle ABC,

$$\sin A = a/c, \cos A = b/c, \text{ and } \tan A = a/b.$$



Calculate the trig ratios based on the pictures below:



$$1) \sin Y = \frac{5\sqrt{3}}{10} = \frac{\sqrt{3}}{2}$$

$$7) \sin R = \frac{4}{5}$$

$$2) \cos Y = \frac{5}{10} = \frac{1}{2}$$

$$8) \cos R = \frac{3}{5}$$

$$3) \tan Y = \frac{5\sqrt{3}}{5} = \sqrt{3}$$

$$9) \tan R = \frac{4}{3}$$

$$4) \sin Z = \frac{5}{10} = \frac{1}{2}$$

$$10) \sin Q = \frac{3}{5}$$

$$5) \cos Z = \frac{5\sqrt{3}}{10} = \frac{\sqrt{3}}{2}$$

$$11) \cos Q = \frac{4}{5}$$

$$6) \tan Z = \frac{5}{5\sqrt{3}} = \frac{\sqrt{3}}{3}$$

$$12) \tan Q = \frac{3}{4}$$

Convert the following fractions to decimals, rounding your answer to the ten-thousandths place:

$$13) \frac{5}{10} = .5000$$

$$14) \frac{5\sqrt{3}}{10} = .8660$$

$$15) \frac{5\sqrt{3}}{5} = 1.7321$$

Convert the following to decimals. Do not round! Leave answers precise, but in decimal form.

$$16) \frac{4}{5} = .8$$

$$17) \frac{3}{5} = .6$$

$$18) \frac{4}{3} = 1.\bar{3}$$

Use your calculator to find the inverse sine, "sin⁻¹" (2nd then SIN on most calculators) of the values above. Write the results here:

$$13) \underline{30^\circ} \quad 14) \underline{60^\circ} \quad 15) \underline{\text{ERROR}} \quad 16) \underline{53.13^\circ} \quad 17) \underline{38.87^\circ} \quad 18) \underline{\text{ERROR}}$$

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Table of Contents Exploring Trigonometric Ratios Unit Lesson Answer Key

1. Understanding the eBook Exploring Trigonometric Ratios Unit Lesson Answer Key
 - The Rise of Digital Reading Exploring Trigonometric Ratios Unit Lesson Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Exploring Trigonometric Ratios Unit Lesson Answer Key
 - 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 Exploring Trigonometric Ratios Unit Lesson Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Exploring Trigonometric Ratios Unit Lesson Answer Key
 - Personalized Recommendations
 - Exploring Trigonometric Ratios Unit Lesson Answer Key User Reviews and Ratings

- Exploring Trigonometric Ratios Unit Lesson Answer Key and Bestseller Lists
- 5. Accessing Exploring Trigonometric Ratios Unit Lesson Answer Key Free and Paid eBooks
 - Exploring Trigonometric Ratios Unit Lesson Answer Key Public Domain eBooks
 - Exploring Trigonometric Ratios Unit Lesson Answer Key eBook Subscription Services
 - Exploring Trigonometric Ratios Unit Lesson Answer Key Budget-Friendly Options
- 6. Navigating Exploring Trigonometric Ratios Unit Lesson Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Exploring Trigonometric Ratios Unit Lesson Answer Key Compatibility with Devices
 - Exploring Trigonometric Ratios Unit Lesson Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Exploring Trigonometric Ratios Unit Lesson Answer Key
 - Highlighting and Note-Taking Exploring Trigonometric Ratios Unit Lesson Answer Key
 - Interactive Elements Exploring Trigonometric Ratios Unit Lesson Answer Key
- 8. Staying Engaged with Exploring Trigonometric Ratios Unit Lesson Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Exploring Trigonometric Ratios Unit Lesson Answer Key
- 9. Balancing eBooks and Physical Books Exploring Trigonometric Ratios Unit Lesson Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Exploring Trigonometric Ratios Unit Lesson Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Exploring Trigonometric Ratios Unit Lesson Answer Key
 - Setting Reading Goals Exploring Trigonometric Ratios Unit Lesson Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Exploring Trigonometric Ratios Unit Lesson Answer Key
 - Fact-Checking eBook Content of Exploring Trigonometric Ratios Unit Lesson Answer Key
 - 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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