

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.

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

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

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

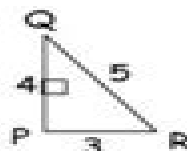
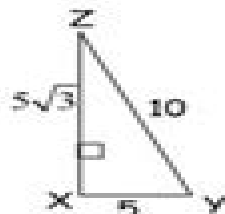


In triangle ABC,

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



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:

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

Algebra 2 Trigonometry Sampler Fall 09 Answers

Raffaela Di Napoli



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1. Understanding the eBook Algebra 2 Trigonometry Sampler Fall 09 Answers
 - The Rise of Digital Reading Algebra 2 Trigonometry Sampler Fall 09 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra 2 Trigonometry Sampler Fall 09 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 Algebra 2 Trigonometry Sampler Fall 09 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra 2 Trigonometry Sampler Fall 09 Answers
 - Personalized Recommendations
 - Algebra 2 Trigonometry Sampler Fall 09 Answers User Reviews and Ratings
 - Algebra 2 Trigonometry Sampler Fall 09 Answers and Bestseller Lists
5. Accessing Algebra 2 Trigonometry Sampler Fall 09 Answers Free and Paid eBooks
 - Algebra 2 Trigonometry Sampler Fall 09 Answers Public Domain eBooks
 - Algebra 2 Trigonometry Sampler Fall 09 Answers eBook Subscription Services
 - Algebra 2 Trigonometry Sampler Fall 09 Answers Budget-Friendly Options

6. Navigating Algebra 2 Trigonometry Sampler Fall 09 Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Algebra 2 Trigonometry Sampler Fall 09 Answers Compatibility with Devices
 - Algebra 2 Trigonometry Sampler Fall 09 Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Algebra 2 Trigonometry Sampler Fall 09 Answers
 - Highlighting and Note-Taking Algebra 2 Trigonometry Sampler Fall 09 Answers
 - Interactive Elements Algebra 2 Trigonometry Sampler Fall 09 Answers
8. Staying Engaged with Algebra 2 Trigonometry Sampler Fall 09 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Algebra 2 Trigonometry Sampler Fall 09 Answers
9. Balancing eBooks and Physical Books Algebra 2 Trigonometry Sampler Fall 09 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra 2 Trigonometry Sampler Fall 09 Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Algebra 2 Trigonometry Sampler Fall 09 Answers
 - Setting Reading Goals Algebra 2 Trigonometry Sampler Fall 09 Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Algebra 2 Trigonometry Sampler Fall 09 Answers
 - Fact-Checking eBook Content of Algebra 2 Trigonometry Sampler Fall 09 Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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web jul 24 2023 it discusses both lower limb and upper limb prostheses and the different devices that make up their

componentry also discussed are the complications associated with prosthetic devices and emerging advances in technology
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web jan 13 2023 enhancing the quality of life of people with a lower limb amputation is critical in prosthetic development and rehabilitation yet no overview is available concerning the impact of passive quasi passive and active ankle foot prostheses on quality of life

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web jan 5 2015 this work reviews the state of the art techniques for controlling portable active lower limb prosthetic and orthotic p o devices in the context of locomotive activities of daily living adl and considers how these can be technology for monitoring everyday prosthesis use a systematic - Dec 27 2021

web jul 14 2020 research has utilised technology to assess step counts as the primary measure of lower limb prosthesis user activity and symmetry between the arm with the prosthesis and the intact arm for upper limb prosthesis users

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web however modern prosthetic technologies offer a wide range of components especially in lower limb prosthesis which manages to replace the major movements and enable users to perform the gait below we add some examples of common prosthetic components and correlation between the prosthetic design and the gait