

Lesson 4 Worksheet 2

Using inverse trig ratios to solve for an angle in a right triangle

Part I: Use your calculator and inverse trig functions to find the angle for each ratio below to the nearest tenth (round to 1 decimal place).

1. $\sin^{-1} .86 =$ _____

5. $\cos^{-1} .72 =$ _____

9. $\tan^{-1} .53 =$ _____

2. $\sin^{-1} \frac{3}{4} =$ _____

6. $\cos^{-1} \frac{1}{4} =$ _____

10. $\tan^{-1} 2 =$ _____

3. $\sin^{-1} .5 =$ _____

7. $\cos^{-1} .3 =$ _____

11. $\tan^{-1} 4.6 =$ _____

4. $\sin x = \frac{3}{4}, x =$ _____

8. $\cos x = \frac{1}{4}, x =$ _____

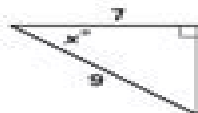
12. $\tan x = \frac{3}{4}, x =$ _____

Part II: Solve for x in each triangle below. Use what you learned in lesson 3 to first identify the ratio, then write the equation, and then solve the equation. Make sure your calculator is in degree mode. Round your answers to the nearest tenth.

1.



2.



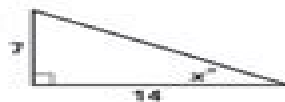
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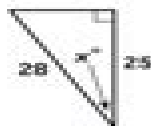
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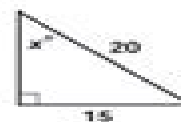
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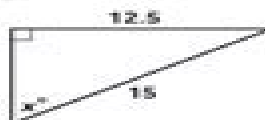
9.



10.



11.



12.



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Table of Contents All Things Algebra Inverse Trig And Ratios Worksheet

1. Understanding the eBook All Things Algebra Inverse Trig And Ratios Worksheet
 - The Rise of Digital Reading All Things Algebra Inverse Trig And Ratios Worksheet
 - Advantages of eBooks Over Traditional Books
2. Identifying All Things Algebra Inverse Trig And Ratios Worksheet
 - 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 All Things Algebra Inverse Trig And Ratios Worksheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from All Things Algebra Inverse Trig And Ratios Worksheet
 - Personalized Recommendations
 - All Things Algebra Inverse Trig And Ratios Worksheet User Reviews and Ratings
 - All Things Algebra Inverse Trig And Ratios Worksheet and Bestseller Lists
5. Accessing All Things Algebra Inverse Trig And Ratios Worksheet Free and Paid eBooks
 - All Things Algebra Inverse Trig And Ratios Worksheet Public Domain eBooks
 - All Things Algebra Inverse Trig And Ratios Worksheet eBook Subscription Services

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

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- Interactive and Gamified eBooks

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