

Trig regents 2014 Latest Edition

trig regents 2014 is a popular exam among students preparing for the New York State Regents exams, especially those aiming to master trigonometry concepts. The 2014 administration of the Trigonometry Regents exam presented a comprehensive assessment that tested students' understanding of fundamental trig functions, identities, equations, and applications. Preparing for this exam requires a thorough review of concepts, practice with past questions, and familiarity with the exam format. This article provides an in-depth overview of the 2014 Trigonometry Regents, key topics covered, sample questions, and effective strategies for success.

Overview of the Trig Regents 2014 Exam

The 2014 Trigonometry Regents exam was designed to assess students' ability to apply trigonometric concepts to solve problems, interpret graphs, and understand identities. The exam typically consists of multiple-choice questions, short-answer questions, and problem-solving exercises.

Exam Structure and Format

The 2014 exam included:

- Multiple-choice questions: Usually 16 questions testing quick recall, graph interpretation, and basic problem-solving.
- Short-answer questions: Around 4-6 questions requiring written explanations or calculations.
- Extended response problems: Longer problems involving multi-step reasoning, often involving real-world applications.

Duration and Scoring

Students had 3 hours to complete the exam. The total score was out of 100 points, with each question weighted according to its difficulty and length.

Key Topics Covered in the 2014 Trigonometry Regents

Understanding the scope of the exam helps students focus their study efforts effectively. The main topics include:

1. Basic Trigonometric Ratios

- Sine, Cosine, Tangent
- Definitions using right triangles
- SOH-CAH-TOA mnemonic

2. Unit Circle and Radian Measure

- Understanding the unit circle
- Converting between degrees and radians
- Coordinates of key angles (0° , 30° , 45° , 60° , 90° , etc.)

3. Graphs of Trigonometric Functions

- Sine and cosine graph characteristics
- Amplitude, period, phase shift, and vertical shift
- Graph transformations

4. Trigonometric Identities and Equations

- Pythagorean identities
- Angle sum and difference formulas
- Double-angle and half-angle formulas
- Solving basic trig equations

5. Inverse Trigonometric Functions

- arcsin, arccos, arctan
- Domain and range considerations
- Applications

6. Applications of Trigonometry

- Solving for unknown sides and angles in triangles
- Real-world problems involving angles of elevation and depression
- Law of Sines and Law of Cosines (if included)

Sample Questions from the 2014 Trigonometry Regents

Practicing past questions helps build confidence and familiarity with the exam format. Here are some representative examples based on the 2014 exam:

Question 1: Basic Ratios

Given a right triangle with an angle θ , where the opposite side is 5 units and the hypotenuse is 13 units, find $\sin \theta$ and $\cos \theta$.

Solution:

- $\sin \theta = \text{opposite/hypotenuse} = 5/13$
- To find $\cos \theta$, first determine the adjacent side using Pythagoras:

$$\text{adjacent} = \sqrt{(\text{hypotenuse}^2 - \text{opposite}^2)} = \sqrt{(13^2 - 5^2)} = \sqrt{(169 - 25)} = \sqrt{144} = 12$$

- $\cos \theta = \text{adjacent/hypotenuse} = 12/13$

Question 2: Graph Interpretation

The graph of $y = 3 \sin(2x + \pi/4)$ is shown. Identify the amplitude, period, phase shift, and vertical shift.

Answer:

- Amplitude: 3
- Period: $\frac{2\pi}{\text{coefficient of } x} = \frac{2\pi}{2} = \pi$
- Phase shift: $-\frac{\text{phase shift}}{\text{coefficient}} = -\frac{\pi/4}{2} = -\pi/8$
- Vertical shift: 0 (since no constant added or subtracted outside the sine function)

Question 3: Solving Trig Equations

Solve for x in the interval $0^\circ \leq x$

$[\pi$

$$2 \sin x - 1 = 0$$

$]$

Solution:

- $\sin x = \frac{1}{2}$
- Solutions in the interval:
- $x = 30^\circ$ and $x = 150^\circ$

Question 4: Applications in Real-world Problems

A ladder leans against a wall forming an angle of 60° with the ground. The ladder is 10 meters long. Find the height at which the ladder touches the wall.

Solution:

- Using sine:

[

$$\text{height} = 10 \sin 60^\circ = 10 \sin 60^\circ = 10 \times \frac{\sqrt{3}}{2} = 5\sqrt{3} \approx 8.66 \text{ meters}$$

]

Strategies for Preparing for the 2014 Trig Regents

Achieving a high score on the exam requires strategic preparation. Here are some effective tips:

1. Review Key Concepts Thoroughly

- Understand definitions and basic ratios
- Memorize key identities and formulas
- Practice converting between degrees and radians

2. Practice Past Exams

- Use official released exams like the 2014 test
- Time yourself to simulate exam conditions
- Review incorrect answers to identify weak areas

3. Master Graphs and Transformations

- Be comfortable sketching and interpreting graphs
- Recognize how shifts and stretches affect graphs

4. Solve a Variety of Problems

- Work through different types of questions, from simple to complex
- Focus on word problems and applications

5. Use Visual Aids and Mnemonics

- Draw diagrams for word problems
- Use mnemonic devices like SOH-CAH-TOA for ratios

Additional Resources for Success

To prepare effectively, students can utilize various resources:

- Official NYS Regents past exams and answer keys: Available online
- Trigonometry textbooks and review guides: Cover core concepts and practice problems
- Online tutorials and videos: Visual explanations can enhance understanding
- Study groups and tutoring: Collaborative learning helps clarify difficult topics

Conclusion

The **trig regents 2014** exam is a comprehensive assessment that tests a wide range of trigonometry concepts essential for high school math mastery. By understanding the exam structure, mastering key topics, practicing past questions, and employing effective study strategies, students can significantly improve their performance. Remember, consistent practice and a solid grasp of fundamental principles are the keys to success on the Regents exam and beyond in higher-level mathematics. Prepare diligently, review thoroughly, and approach the exam with confidence!

Trig Regents 2014: An In-Depth Review and Analysis

The Trig Regents 2014 examination remains a significant milestone for high school students in New York preparing for their mathematics regents exams. As one of the most challenging topics in the

high school curriculum, trigonometry requires a solid understanding of concepts, formulas, and problem-solving strategies. The 2014 exam serves as both a benchmark and a learning tool for students aiming to master the subject. This review aims to dissect the exam's structure, key topics, strengths, and areas for improvement, providing a comprehensive overview for educators, students, and tutors alike.

Overview of the 2014 Trigonometry Regents Exam

The 2014 Trigonometry Regents Exam was designed to assess students' understanding of fundamental trigonometric concepts, their ability to apply formulas, and solve real-world problems involving angles and functions. The exam typically consists of multiple sections, including multiple-choice questions, grid-ins, and open-ended problems. The total time allotted is 3 hours, with a recommended 45-minute to 1-hour focus on each section.

The exam comprised approximately 40 questions, covering a broad spectrum of topics such as right triangle trigonometry, unit circle, graphs of trig functions, identities, and applications. The difficulty level was moderate to high, with questions ranging from straightforward calculations to complex problem-solving scenarios.

Breakdown of Key Topics Covered in the 2014 Exam

1. Basic Trigonometric Ratios and Definitions

This section tested students' knowledge of sine, cosine, and tangent functions, primarily within right triangles and on the unit circle. Students were expected to recall and manipulate these ratios confidently.

2. The Unit Circle and Radian Measure

Understanding the unit circle, radians, and their relationship to degrees was crucial. Questions involved identifying key angles and their sine and cosine values, often requiring students to convert between degrees and radians.

3. Trigonometric Graphs and Transformations

Students needed to interpret and sketch the graphs of basic trig functions, understanding amplitude, period, phase shift, and vertical shifts. This section also included analyzing transformations of the parent functions.

4. Trigonometric Identities and Equations

Proficiency in identities such as Pythagorean, quotient, reciprocal, and co-function identities was tested. Solving trig equations and proving identities were common problem types.

5. Solving Triangles and Applications

This involved using laws of sines and cosines for non-right triangles, as well as applications like angle of elevation and depression, and real-world problem scenarios.

Strengths of the 2014 Trig Regents Exam

- Comprehensive Coverage: The exam covers a broad range of topics, ensuring students grasp both theoretical and practical aspects of trigonometry.
- Progressive Difficulty: Questions are structured to progressively increase in difficulty, testing foundational knowledge first before moving to complex problems.
- Real-World Application: Several problems involve real-life contexts, enhancing relevance and engagement.
- Use of Graphical and Analytical Skills: The exam assesses multiple skills?calculations, graphing, and proofs?offering a well-rounded evaluation.
- Clear Question Structure: Most questions are straightforward in wording, reducing ambiguity and allowing students to demonstrate understanding without confusion.

Challenges and Areas for Improvement

- Complex Word Problems: Some questions, particularly in the applications section, are lengthy and require multiple steps, which can be daunting under exam conditions.
- Radian Conversion Difficulties: Students unfamiliar with radian measures may struggle with conversion questions, emphasizing the need for thorough practice.
- Identity Proofs: Proving identities or solving trig equations can be complex, especially without prior memorization or familiarity with identities.
- Time Management: The breadth of topics demands efficient time allocation; students often find themselves rushing through the later questions.

Features and Notable Questions from the 2014 Exam

Some questions from the 2014 exam stood out due to their clarity and challenge level:

- Question on the Unit Circle: Identifying sine and cosine values for specific angles in radians, testing conversion skills.

- Graph Transformation Problem: Analyzing the graph of a sine function with shifts and amplitude changes, requiring understanding of the transformation parameters.
- Identity Verification: Proving a Pythagorean identity involving sine and cosine functions using algebraic manipulations.
- Law of Cosines Application: Solving for missing sides and angles in non-right triangles, blending geometric intuition with algebra.
- Real-World Scenario: Calculating the height of a building using angle of elevation, illustrating practical application.

These questions exemplify the exam's balanced approach between computational skills and conceptual understanding.

Preparation Strategies for Success on the 2014 Trigonometry Regents

- Master Fundamental Ratios and Definitions: Make sure to memorize and understand sine, cosine, tangent, and reciprocal functions.
- Practice Radian and Degree Conversions: Be comfortable switching between units, especially when working with the unit circle.
- Learn and Memorize Key Identities: Pythagorean, quotient, and co-function identities are essential for simplifying and solving problems.
- Develop Graphing Skills: Practice sketching and interpreting trig functions, including transformations.
- Solve Past Exams and Practice Problems: Familiarity with the style and difficulty of questions improves confidence and efficiency.
- Work on Word Problems: Apply trigonometry to real-world situations to enhance problem-solving skills under timed conditions.
- Time Management: Practice pacing to ensure all questions receive adequate attention.

Pros and Cons of the 2014 Trig Regents Exam

Pros:

- Well-rounded assessment of multiple skills
- Inclusion of real-world applications
- Clear and structured question layout
- Emphasis on understanding over rote memorization

Cons:

- Some questions are lengthy, risking time constraints
- Radian conversion can pose difficulties for some students
- Advanced identity proofs may be challenging without prior practice
- The difficulty level might be intimidating for average students

Conclusion

The Trig Regents 2014 exam offers a comprehensive assessment of high school trigonometry, balancing computational, conceptual, and application-based questions. While it presents challenges typical of advanced math exams, it also provides opportunities for students to demonstrate mastery of fundamental concepts and problem-solving skills. Preparing effectively by focusing on core topics, practicing past questions, and developing strategic time management can help students perform well. Ultimately, the 2014 exam serves as a valuable learning experience, emphasizing the importance of understanding and applying trigonometric principles in both academic and real-world contexts.

Question What are the key concepts tested in the Trigonometry Regents 2014 exam? The 2014 Regents exam primarily tests understanding of sine, cosine, tangent functions, unit circle, inverse trigonometric functions, identities, and solving trigonometric equations. **Answer** How do I solve a basic trigonometric equation like $\sin x = 0.5$ on the 2014 Regents? To solve $\sin x = 0.5$, find the reference angle where sine equals 0.5 (which is 30° or $\pi/6$ radians), then determine all solutions within the given interval, typically using the unit circle and symmetry properties. What are common trigonometric identities tested in the 2014 Regents exam? Common identities include Pythagorean identities ($\sin^2 x + \cos^2 x = 1$), reciprocal identities, quotient identities, and co-function identities, which are often used to simplify and solve problems. How can I effectively prepare for the 2014 Trigonometry Regents exam? Review key concepts, practice solving a variety of trig equations, memorize important identities, and work through past exam questions to familiarize yourself with the question formats and difficulty levels. Are there specific calculator tips for the 2014 Regents Trigonometry exam? Yes, ensure your calculator is in the correct mode (degree or radian as required), use it to find sine, cosine, tangent, and inverse functions accurately, and double-check your answers for extraneous solutions. What is the significance of the unit circle in the 2014 Trigonometry Regents? The unit circle helps in understanding the values of sine, cosine, and tangent for key angles, and is essential for solving equations, graphing functions, and understanding periodicity in the exam. How are inverse trigonometric functions tested in the 2014 Regents? Inverse functions are tested through problems requiring you to find angles given a sine, cosine, or tangent value, often involving the use of the inverse sine, cosine, or tangent functions and understanding their ranges.

Related keywords: trigonometry regents 2014, trig practice questions 2014, regents exam trig 2014, trigonometry test questions 2014, regents trig solutions 2014, trig formulas regents 2014, regents math trig 2014, trigonometry regents review 2014, regents trig answer key 2014, trig regents

exam preparation 2014

Find The Value Of The Trig Function Indicated Worksheet

Find the value of the trig function indicated worksheet is a vital resource for students and educators aiming to master trigonometry. Whether you're preparing for exams, tutoring others, or simply seeking to strengthen your understanding of trigonometric functions, worksheets dedicated to finding the value of specific trig functions are invaluable tools. These worksheets help reinforce concepts, improve problem-solving skills, and build confidence in dealing with angles and their associated functions. In this article, we will explore how to effectively use such worksheets, the key concepts involved, and tips for mastering trigonometric functions.

Understanding the Importance of Worksheets for Finding Trig Function Values

Why Use Worksheets in Learning Trigonometry

Worksheets offer a structured way to practice and assess your knowledge. They provide a variety of problems that challenge your understanding and help you recognize different types of questions you might encounter in exams or real-world applications. Specifically, worksheets focused on finding the value of trig functions enable students to:

- Develop fluency in calculating sine, cosine, tangent, and other functions
- Understand the relationships between angles and their trigonometric values
- Learn to work with special angles and their known values
- Practice using calculator and unit circle methods
- Identify common errors and misconceptions

How Worksheets Support Learning and Assessment

Regular practice with worksheets allows for self-assessment, helping students gauge their progress and identify areas needing improvement. Teachers can utilize these worksheets to evaluate students' understanding, tailor instruction, and provide targeted feedback.

Key Concepts Covered in Find the Value of the Trig Function Worksheets

Basic Trigonometric Functions

At the core of these worksheets are the primary functions:

- Sine ($\sin$)
- Cosine ($\cos$)
- Tangent ($\tan$)

Understanding these functions' definitions and how they relate to right triangles or the unit circle is fundamental.

Special Angles and Their Values

Worksheets often focus heavily on special angles where trig functions have known exact values, typically:

- 0° , 30° , 45° , 60° , 90°
- Expressed in radians: 0 , $\pi/6$, $\pi/4$, $\pi/3$, $\pi/2$

Mastering these angles is crucial because they serve as reference points for solving more complex problems.

Using the Unit Circle

The unit circle provides a visual and analytical way to find the exact values of trig functions at various angles. Worksheets may include tasks like:

- Identifying coordinates of points on the unit circle
- Calculating $\sin$, $\cos$, and $\tan$ based on these coordinates
- Understanding the symmetry and periodicity of trig functions

Inverse Trigonometric Functions

Some worksheets extend to inverse functions, such as $\arcsin$, $\arccos$, and $\arctan$, which are useful for finding angles from given function values.

How to Approach Worksheets for Finding Trig Function Values Effectively

Step 1: Understand the Question

Carefully read each problem to determine which trig function is to be evaluated and whether the angle is given in degrees or radians.

Step 2: Visualize the Problem

Use diagrams or draw triangles when applicable. Visual aids can clarify relationships and reduce errors.

Step 3: Recall Key Values and Identities

Memorize or review the exact values of trig functions at special angles. Familiarize yourself with identities like:

- Sine and cosine co-function identities
- Tangent as sine over cosine
- Pythagorean identities

Step 4: Use the Unit Circle or Calculator Appropriately

Depending on the problem:

- Use the unit circle for exact values at special angles.
- Use a calculator for approximate values or angles not on the special angle list, ensuring it's in the correct mode (degree or radian).

Step 5: Simplify and Verify Your Answer

Simplify your answer when possible and verify that it makes sense within the context of the problem.

Sample Problems and Solutions from Find the Value of the Trig Function Worksheets

Example 1: Find $\sin 45^\circ$

Solution:

Recall that $\sin 45^\circ = \frac{\sqrt{2}}{2}$. This is a well-known value from the special angles on the unit circle.

Example 2: Find $\cos \theta/3$

Solution:

$\cos \theta/3 = 1/2$, again from the unit circle.

Example 3: Find $\tan 60^\circ$

Solution:

$\tan 60^\circ = \sqrt{3}$. Use the relationship $\tan \theta = \sin \theta / \cos \theta$, or recall directly from the special angles.

Additional Tips for Mastering the Use of Worksheets in Trigonometry

- **Practice Regularly:** Consistency helps reinforce memory and understanding.
- **Use Multiple Resources:** Combine worksheets with online tutorials, videos, and flashcards for comprehensive learning.
- **Understand, Don't Memorize:** Focus on understanding the concepts behind trig functions and their values rather than rote memorization.
- **Check Your Work:** Always verify your answers, especially when working without a calculator.
- **Seek Help When Needed:** Join study groups or ask teachers for clarification on challenging problems.

Conclusion: Enhancing Your Trigonometry Skills with Worksheets

Mastering the art of finding the value of trig functions is essential for success in mathematics. Worksheets dedicated to this purpose provide structured practice, reinforce core concepts, and prepare students for more advanced topics like calculus and physics. By understanding the key concepts, employing strategic problem-solving techniques, and practicing regularly, learners can confidently navigate the world of trigonometry.

Remember, the goal of using a "find the value of the trig function indicated worksheet" is not only to get the correct answer but also to develop a deep understanding of how these functions work, their applications, and their relationships. With dedication and the right resources, you'll be able to solve any problem involving trigonometric functions with ease and precision.

Find the value of the trig function indicated worksheet is an essential educational tool designed to help students master the fundamentals of trigonometry. This worksheet serves as a comprehensive resource for learners to practice calculating the values of various trigonometric functions—sine, cosine, tangent, cosecant, secant, and cotangent—across diverse angles and contexts. Its primary

goal is to enhance students' understanding of the relationships between angles and their corresponding trigonometric ratios, which are fundamental in fields like mathematics, physics, engineering, and computer science.

Overview of the Worksheet and Its Purpose

The "Find the value of the trig function indicated" worksheet is structured to guide students through a step-by-step process of evaluating trigonometric functions. It typically includes a variety of problems ranging from basic angle measures (such as 30° , 45° , 60° , and 90°) to more complex, real-world applications involving angles in different quadrants or in coordinate systems.

The purpose of this worksheet is twofold:

- To reinforce students' understanding of the unit circle and how it relates to trigonometric functions.
- To develop proficiency in calculating and simplifying trig function values, both analytically and using calculator techniques.

By providing consistent practice, the worksheet aims to build confidence and fluency in handling trigonometric problems, which are often encountered in advanced mathematics and science courses.

Features of the Worksheet

Structured Practice Problems

The worksheet offers a variety of problems, often categorized by difficulty levels:

- Basic angle problems involving the unit circle.
- Problems requiring the use of special triangles ($30-60-90$ and $45-45-90$).
- Application-based questions involving angles in different quadrants.
- Word problems that incorporate real-world scenarios.

Answer Spaces and Step-by-Step Guidance

Most worksheets include designated spaces for students to show their work, encouraging clarity and proper problem-solving techniques. Some versions also provide hints or step-by-step instructions to aid understanding.

Answer Keys and Explanations

Many worksheets come with detailed answer keys or solutions, enabling students to verify their work and grasp the reasoning behind each answer.

Digital and Printable Formats

With the advent of online education, many worksheets are available in digital formats, allowing interactive exercises, immediate feedback, and self-paced learning. Printable versions are also widely accessible for traditional classroom use or homework assignments.

Advantages of Using the Worksheet

- Reinforces Conceptual Understanding: Regular practice helps solidify the connection between angles and their trig functions.
- Builds Calculation Skills: Students learn to evaluate trig functions both analytically and with calculator assistance.
- Prepares for Higher-Level Math: Mastery of these worksheets lays the groundwork for calculus, physics, and engineering courses.
- Engages Multiple Learning Styles: Visual diagrams, step-by-step instructions, and practice problems cater to diverse learners.
- Flexible Use: Suitable for individual practice, classroom activities, or homework.

Challenges and Limitations

While these worksheets are valuable educational tools, they do have certain limitations:

- Potential for Rote Memorization: Without proper conceptual understanding, students might rely solely on memorization.
- Limited Context for Complex Problems: Some worksheets focus on straightforward calculations and may not fully prepare students for real-world applications.
- Dependence on Calculator Use: Over-reliance on calculators can hinder understanding of underlying principles.
- Accessibility Issues: Digital worksheets require internet access and devices, which may not be available to all students.

How to Maximize the Effectiveness of These Worksheets

- Combine with Conceptual Lessons: Use worksheets alongside lessons on the unit circle, special triangles, and identities.
- Encourage Work Showings: Promote detailed problem-solving to reinforce understanding.
- Discuss Common Mistakes: Highlight typical errors (e.g., sign errors in different quadrants) and how to avoid them.
- Use in Group Settings: Collaborative problem-solving can deepen understanding through peer discussion.
- Supplement with Visual Aids: Diagrams, graphs, and models help students visualize angles and functions.

Sample Problems and Their Educational Value

Example 1: Find $\sin(45^\circ)$.

Educational Focus: Understanding special right triangles and the unit circle.

Example 2: Evaluate $\sec(120^\circ)$.

Educational Focus: Applying the reciprocal identity and considering the angle in the second quadrant.

Example 3: Determine the value of $\tan(150^\circ)$ without a calculator.

Educational Focus: Recognizing reference angles and the signs of trig functions in quadrants.

Example 4: Word problem involving angles of elevation/depression requiring trig calculations.

Educational Focus: Applying trig functions to real-world scenarios.

Integration into Broader Learning Modules

This worksheet can serve as a foundational activity within a comprehensive trigonometry curriculum. It complements lessons on:

- The unit circle and radian measure.
- Trigonometric identities and formulas.
- Graphs of trig functions.
- Solving trig equations.
- Applications in physics and engineering.

By integrating these worksheets into broader modules, educators can ensure students develop both procedural fluency and conceptual understanding.

Conclusion

The find the value of the trig function indicated worksheet is a versatile and effective educational resource that promotes mastery of fundamental trigonometric concepts. Its structured approach, variety of problem types, and emphasis on step-by-step reasoning make it an invaluable tool for students striving to understand and apply trigonometry. While it has some limitations, especially if used in isolation, when combined with conceptual lessons and visual aids, it significantly enhances learning outcomes. Whether in classroom settings or for independent study, these worksheets lay a strong foundation for advanced mathematical pursuits and real-world problem-solving involving angles and their trig functions.

QuestionAnswer How do I find the value of a sine function given an angle in a worksheet? To find the sine of an angle, identify the angle measure (in degrees or radians), then use a calculator or unit circle to determine the sine value. Make sure your calculator is in the correct mode (degrees or radians). What is the best way to evaluate cosine values without a calculator? You can use known special angles (such as 0° , 30° , 45° , 60° , 90°) and their cosine values, or apply the unit circle and symmetry properties of cosine to find the value. How do I find the value of a tangent function on a worksheet? Calculate the tangent by dividing the sine of the angle by the cosine of the angle ($\tan \theta = \sin \theta / \cos \theta$), using known values or calculator functions. What should I do if the worksheet asks for the reciprocal trig functions? Recall that cosecant, secant, and cotangent are reciprocals of sine, cosine, and tangent respectively. Use the basic trig values and take reciprocals as needed. How can I verify my trig function value from a worksheet? Use a calculator for approximate values, or cross-verify using the unit circle, special angle values, or known identities to ensure accuracy. What strategies can help me find trig function values for angles not listed in the worksheet? Use angle addition/subtraction formulas, reference angles, or known identities to find the value; or approximate using a calculator if exact values are not required. Why do some worksheet questions ask for exact trig values, and how do I find them? Exact values are based on special angles where the sine, cosine, and tangent values are known exactly (like 30° , 45° , 60°). Use the unit circle or known identities to find these exact values.

Related keywords: trigonometry worksheet, find the value, trig functions, sine, cosine, tangent, worksheet practice, evaluate trig functions, trigonometric ratios, angle measurement, math exercises

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