

Instructions:

Following Right Triangles (RT):

Below each of the following triangles, I then record the two measures of unknown side/angle(s) the student gives in response to the word problem, and you MUST show the calculation you use to solve the final side/angle. Record your response to the unknown side/angle(s) in your response to the word problem. If they are the same as the answer key for the angle labeled below.

Name:

Triangle ABC - given that angle B is a right angle, side AB = 5, side AC = 13



$$BC = 12$$

$$\cos C = \frac{5}{13}$$

$$\sin C = \frac{12}{13}$$

$$\sin A = \frac{12}{13}$$

Triangle DEF - given that angle F is a right angle, side DF = 4, side EF = 5



$$\sin E = \frac{4}{5}$$

$$\cos E = \frac{3}{5}$$

$$\sin D = \frac{3}{5}$$

$$\cos D = \frac{4}{5}$$

$$\cos E = \frac{3}{5}$$

$$\sin E = \frac{4}{5}$$

$$\cos D = \frac{4}{5}$$

$$\sin D = \frac{3}{5}$$

$$\sin E = \frac{4}{5}$$

Triangle GHI - given that angle H is a right angle, side GH = 12, side HI = 13



$$\sin I = \frac{12}{13}$$

$$\cos I = \frac{5}{13}$$

$$\sin G = \frac{5}{13}$$

$$\cos G = \frac{12}{13}$$

$$\cos I = \frac{5}{13}$$

$$\sin I = \frac{12}{13}$$

$$\cos G = \frac{12}{13}$$

$$\sin G = \frac{5}{13}$$

Triangle JKL - given that angle L is a right angle, side JL = 12, side JK = 13



$$\sin K = \frac{12}{13}$$

$$\cos K = \frac{5}{13}$$

$$\sin J = \frac{5}{13}$$

$$\cos J = \frac{12}{13}$$

$$\cos K = \frac{5}{13}$$

$$\sin K = \frac{12}{13}$$

$$\cos J = \frac{12}{13}$$

$$\sin J = \frac{5}{13}$$

$$\sin K = \frac{12}{13}$$

$$\cos K = \frac{5}{13}$$

$$\cos J = \frac{12}{13}$$

$$\sin J = \frac{5}{13}$$

Triangle MNP - given that angle P is a right angle, side MP = 12, side MN = 13



$$\sin N = \frac{12}{13}$$

$$\cos N = \frac{5}{13}$$

$$\sin M = \frac{5}{13}$$

$$\cos M = \frac{12}{13}$$

$$\sin N = \frac{12}{13}$$

$$\cos N = \frac{5}{13}$$

$$\cos M = \frac{12}{13}$$

$$\sin M = \frac{5}{13}$$

$$\sin N = \frac{12}{13}$$

$$\cos N = \frac{5}{13}$$

$$\cos M = \frac{12}{13}$$

$$\sin M = \frac{5}{13}$$

Triangle RST - given that side RS = 12, side ST = 13, and angle S = 90 degrees, find angle R and angle T.



$$\sin R = \frac{12}{13}$$

$$\cos R = \frac{5}{13}$$

$$\sin T = \frac{5}{13}$$

$$\cos T = \frac{12}{13}$$

$$\sin R = \frac{12}{13}$$

$$\cos R = \frac{5}{13}$$

$$\sin T = \frac{5}{13}$$

$$\cos T = \frac{12}{13}$$

$$\sin R = \frac{12}{13}$$

$$\cos R = \frac{5}{13}$$

Answers:

1. Angle A = 69.4°, angle C = 20.6°, side BC = 12

2. Angle D = 53.1°, side EF = 3.6, side DF = 4.8

3. Angle G = 22.6°, side HI = 12.5, side GH = 12

4. Angle M = 69.4°, angle N = 20.6°, side NP = 12.5

5. Angle R = 69.4°, angle T = 20.6°, side ST = 12.5

6. Triangle RST, angle S = 90°, side RS = 12, side ST = 13, find angle R and angle T.

Triangles Evaluation Pi Precalculus Key

**Edward J. Thomas, John R.
Brunsting, Pam L. Warrick**



Triangles Evaluation Pi Precalculus Key:

Precalculus Cynthia Y. Young, 2010-01-19 Engineers looking for an accessible approach to calculus will appreciate Young's introduction. The book offers a clear writing style that helps reduce any math anxiety they may have while developing their problem solving skills. It incorporates Parallel Words and Math boxes that provide detailed annotations which follow a multi-modal approach. Your Turn exercises reinforce concepts by allowing them to see the connection between the exercises and examples. A five step problem solving method is also used to help engineers gain a stronger understanding of word problems.

Precalculus Ron Larson, Robert P. Hostetler, Bruce H. Edwards, 2001 Precalculus Roland E. Larson, 1997

Precalculus Mathematics Max A. Sobel, 1991 *Precalculus Functions and Graphs* Ron Larson, Robert P.

Hostetler, Bruce H. Edwards, 2000-08 As the best seller in its field *Precalculus Functions and Graphs A Graphing Approach* is the choice for precalculus courses that require students to use graphing technology. It begins with a faster paced algebra review and introduces trigonometry first with a unit circle approach then the right triangle. The Third Edition offers both instructors and students a more solid comprehensive and flexible program than ever before. For a complete listing of features see Larson Hostetler Edwards College Algebra A Graphing Approach 3 e **Precalculus with Limits** Ron Larson, Robert P.

Hostetler, Bruce H. Edwards, 2001 For a full description see Larson et al College Algebra A Graphing Approach 3 e

Precalculus: The Easy Way Christina Pawlowski-Polanish, Lawrence Leff, 2019-09-03 A self teaching guide for students. *Precalculus The Easy Way* provides easy to follow lessons with comprehensive review and practice. This edition features a brand new design and new content structure with illustrations and practice questions. An essential resource for High school and college courses. Virtual learning. Learning pods. Homeschooling. *Precalculus The Easy Way* covers Algebraic Methods, Functions and Graphs, Complex Numbers, Polynomial and Rational Functions, Calculus Preview, And more. *Precalculus: A Functional Approach to Graphing and Problem Solving* Karl Smith, 2013 *Precalculus A Functional Approach to Graphing and Problem Solving* prepares students for the concepts and applications they will encounter in future calculus courses. In far too many texts, process is stressed over insight and understanding and students move on to calculus ill equipped to think conceptually about its essential ideas. This text provides sound development of the important mathematical underpinnings of calculus, stimulating problems and exercises and a well developed engaging pedagogy. Students will leave with a clear understanding of what lies ahead in their future calculus courses. Instructors will find that Smith's straightforward student friendly presentation provides exactly what they have been looking for in a text. **Precalculus** Mustafa A. Munem, James P.

Yizze, 2001-08 **A Graphical Approach to Precalculus** E. John Hornsby, Jr., Margaret L. Lial, 1996 Precalculus

Charlene Edwards, 1971 **Precalculus** Lawrence O. Cannon, Joseph Elich, 1993-11 **Precalculus Plus** Ronald D.

Ferguson, 1995 **Precalculus Through Modeling and Visualization** Gary K. Rockswold, E. John Hornsby, Margaret L.

Lial, 1999 This book intended for a graphing required college algebra and trigonometry or precalculus course offers an

innovative approach by demonstrating the importance of mathematics to students and presenting the material in an accessible manner The text consistently integrates mathematical concepts with real applications in order to enhance student intuition and understanding Symbolic algebraic graphical numerical and verbal skills are continually reinforced throughout When introducing mathematical ideas the text moves from the concrete to the abstract rather than the reverse It is the authors philosophy that learning is increased when students can relate a concept to something in their lives Hence mathematical concepts are often introduced through applications that help make the mathematics real to students Students see the importance of a topic from a practical and intuitive point of view with models and applications playing a central part in the learning process **Resources in Education** ,1989 **Styles and Strategies for Teaching High School**

Mathematics Edward J. Thomas,John R. Brunsting,Pam L. Warrick,2010-08-10 One key to raising achievement in mathematics is to recognize that all students have preferred styles of thinking and learning By rotating teaching strategies you can reach learners through their preferred styles as well as challenge students to think in other styles Styles and Strategies for Teaching High School Mathematics provides a set of powerful research based strategies to help high school teachers differentiate mathematics instruction and assessment according to their students learning styles Presenting four distinct mathematical learning styles Mastery Understanding Self Expressive and Interpersonal this book offers classroom tested instructional strategies that can be mixed and matched to reach all learners Compatible with any curriculum or textbook the book Explains how the strategies address NCTM process standards and students learning styles Includes step by step directions examples and planning considerations for each strategy Provides reproducible forms for implementing the strategies Offers variations and ways to adapt each strategy to meet a variety of instructional demands With assessment components woven throughout this invaluable guide helps high school mathematics teachers effectively reach and teach today s adolescents **Precalculus** Jogindar Ratti,Marcus S. McWaters,2012-12-03 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book Ratti and McWaters have combined years of lecture notes and firsthand experience with students to bring readers a book series that teaches at the same level and in the style as the best math instructors An extensive array of exercises and learning aids further complements the instruction readers would receive in class and during office hours **Schaum's**

Outline of Trigonometry Robert E. Moyer,1998-12-21 Updated to match the emphasis in today s courses this clear study guide focuses entirely on plane trigonometry It summarizes the geometry properties and theorems that prove helpful for solving trigonometry problems Also where solving problems requires knowledge of algebra the algebraic processes and the basic trigonometric relations are explained carefully Hundreds of problems solved step by step speed comprehension make important points memorable and teach problem solving skills Many additional problems with answers help reinforce learning and let students gauge their progress as they go CliffsQuickReview Precalculus W. Michael Kelley,2011-09-19

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Precalculus Judith A. Beecher, Judith A. Penna, Marvin L. Bittinger, 2015-02

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right 2 8 dfrac dy

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web we can calculate this answer in steps we start with differentiating in terms of the left most variable in xyz so here we start by taking the derivative with respect to x first $f_x = 4\cos 4x yz$ then $f_{xx} = 16\sin 4x yz$ $f_{xxy} = 16z\cos 4x yz$ finally $f_{xyxz} = 16\cos 4x yz$ $16yz\sin 4x yz$

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