

Pre-Calculus
Verifying Identities Worksheet

Name _____

Directions: ^{Prove}~~Verify~~ each trigonometric identity. Complete all work on a separate piece of paper.

1) $\cos^3 \theta + \sin^2 \theta \cos \theta = \cos \theta$

3) $\sec \theta \sin \theta = \tan \theta$

5) $\frac{\sec^2 \theta - 1}{\tan \theta} = \tan \theta$

7) $\sec \theta \sin \theta \cot \theta = 1$

9) $\cos^2 \theta - \sin^2 \theta = 2 \cos^2 \theta - 1$

11) $\cot \theta \sin \theta = \cos \theta$

13) $\sin \theta (1 + \csc \theta) = \sin \theta + 1$

15) $(1 + \tan^2 \theta) \cos^2 \theta = 1$

17) $(\sec \theta + \tan \theta)(\sec \theta - \tan \theta) = 1$

19) $\frac{1 - 2 \csc \theta}{\cot \theta} = \tan \theta - 2 \sec \theta$

21) $\sin \theta + \cos \theta \cot \theta = \csc \theta$

23) $\frac{\cos \theta}{1 - \sin^2 \theta} = \sec \theta$

25) $\frac{\cot \theta}{1 + \cot^2 \theta} = \sin \theta \cos \theta$

27) $\frac{\sin \theta + \cos \theta}{\sin \theta \cos \theta} = \sec \theta + \csc \theta$

29) $\frac{(1 + \sin \theta)^2}{\cos^2 \theta} = \frac{1 + \sin \theta}{1 - \sin \theta}$

31) $\csc \theta \cos^2 \theta + \sin \theta = \csc \theta$

33) $\sin \theta \left(\frac{\cot \theta}{\sec \theta} + \csc \theta \right) = \cos^2 \theta + 1$

35) $\csc \theta - \sin \theta = \cot \theta \cos \theta$

2) $\csc^2 \theta - \cos^2 \theta \csc^2 \theta = 1$

4) $\frac{\csc \theta}{\sec \theta} = \cot \theta$

6) $\frac{\cot \theta}{\csc^2 \theta - 1} = \tan \theta$

8) $\cot \theta \csc \theta \tan^2 \theta = \sec \theta$

10) $\cos^2 \theta - \sin^2 \theta = 1 - 2 \sin^2 \theta$

12) $\frac{\tan \theta}{\sec \theta} = \sin \theta$

14) $(1 + \tan \theta)^2 = \sec^2 \theta + 2 \tan \theta$

16) $\cos \theta = \sec \theta - \sin \theta \tan \theta$

18) $\frac{\sec \theta}{\csc^2 \theta} = \sec \theta - \cos \theta$

20) $\frac{\sec^2 \theta - 1}{\tan \theta} = \tan \theta$

22) $\cos \theta (\csc \theta - \sec \theta) = \cot \theta - 1$

24) $\tan^2 \theta - \tan^2 \theta \sin^2 \theta = \sin^2 \theta$

26) $\frac{1 + \tan^2 \theta}{\cos^2 \theta} = \sec^4 \theta$

28) $\frac{\sec \theta + \tan \theta}{\cos \theta + \cot \theta} = \sin \theta \sec^2 \theta$

30) $\frac{1 + \sec \theta}{\tan \theta + \sin \theta} = \csc \theta$

32) $\frac{\csc^2 \theta}{\csc^2 \theta - 1} = \sec^2 \theta$

34) $\frac{2 \cos^2 \theta - \sin^2 \theta + 1}{\cos \theta} = 3 \cos \theta$

36) $\frac{1}{1 - \cos \theta} + \frac{1}{1 + \cos \theta} = 2 \csc^2 \theta$

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Michael Sullivan



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Precalculus, Student Solutions Manual Cynthia Y. Young, 2010-02-15 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. *Student's Solutions Manual for Precalculus* Robert Blitzer, 2017-04-19

Pre-Calculus Demystified Rhonda Huettnermueller, 2005-02-04 Pre Calculus Demystified leads the reader through all the intricacies and requirements of this essential course. Whether you need to pass a class, a college requirement or get a leg up on more advanced topics, this book provides clear explanation with a wealth of questions, answers and practical examples. Packed with practical examples, graphs and Q & A's, this complete self teaching guide from the best selling author of Algebra Demystified covers all the essential topics including absolute value, nonlinear inequalities, functions and their graphs, inverses, proportion and ratio and much more.

Precalculus Mehdi Rahmani-Andebili, 2024-01-05 The second edition of this study guide is written and designed for students taking a precalculus course. It includes new and expanded exercises with final answers that will help students to review and sharpen their knowledge of the subject and enhance their performance in the classroom. The author uses methods typically found in instructor recommended textbooks, offering detailed solutions, multiple methods for solving problems and clear explanations of concepts. This hands on guide will improve students' problem solving skills and foster a solid understanding of calculus, which will benefit them in all of their calculus based courses.

Precalculus J. S. Ratti, Marcus McWaters, Leslaw Skrzypek, 2018-01-08 Textbook with answers to selected exercises

Precalculus with Calculus Previews Dennis Zill, Jacqueline Dewar, 2011-04-20 Building off the success of Zill and Dewar's popular *Precalculus with Calculus Previews* Fourth Edition, the new Expanded Volume includes all the outstanding features and learning tools found in the original text while incorporating additional coverage that some courses may require. With a continued aim to keep the text complete yet concise, the authors added three additional chapters, making the text a clear choice for many mainstream courses. New chapters include Triangle Trigonometry, Systems of Equations and Inequalities, and Sequences and Series. This student friendly four color text offers numerous exercise sets and examples to aid in students' learning and understanding, and graphs and figures throughout serve to better illuminate key concepts. The exercise sets include engaging problems that focus on algebra, graphing and function theory, the sub text of so many calculus problems. The authors are careful to use the terminology of calculus in an informal and comprehensible way to facilitate the student's successful transition into future calculus courses.

Precalculus Judith A. Beecher, Judith A. Penna, Marvin L. Bittinger, 2011-11-21 This is the eBook of the printed book and may not include any media website access codes or print

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Solutions Manual for Precalculus Warren Esty, 2008-04-28 **Precalculus with Calculus Previews** Dennis G. Zill, Jacqueline M. Dewar, 2015-11-03 Building off the success of Zill and Dewar's popular Essentials version the new Sixth Edition of Precalculus with Calculus Previews continues to include all of the outstanding features and learning tools found in the original text while incorporating additional topics of coverage that some courses may require With a continued effort to keep the text complete yet concise the authors have included four additional chapters making the text a clear choice for many mainstream courses Additional chapters include a new chapter on Polar Coordinates as well as Triangle Trigonometry Systems of Equations and Inequalities and Sequences and Series

Student Solutions Manual for Precalculus Ross Rueger, 2016 *Precalculus* David Cohen, 2005-05 Provides detailed and complete solutions to the odd numbered exercises and test questions **Pre-Calculus Questions and Answers (Speedy Study Guides LLC Publishing, Speedy Publishing LLC, 2014-05** In the world of mathematics entry into calculus comes through practice in trigonometry algebra limits and exponential logarithmic functions pre calculus Such practice is necessary to understand calculus the study of measuring infinitesimal change According to 1980s psychologist Howard Gardner learners assimilate information using a variety of senses and abilities musical rhythmic visual spatial verbal linguistic logical mathematical bodily kinesthetic interpersonal intra personal and naturalistic by name For visual learners a flow chart mapping the proper math to apply to a problem would help them solve it

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Precalculus Ron Larson, Robert P. Hostetler, 2003-01-29

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web astm a6 sets the acceptable variance for member length straightness camber sweep and cross sec tion properties cross section properties addressed are overall depth and width fl ange and web thickness and fl ange out of alignment see table 1

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