

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

Answers From Precalculus Apex

Todd Swanson, Janet Andersen



Answers From Precalculus Apex:

Precalculus Todd Swanson, Janet Andersen, 2001 PRECALCULUS A STUDY OF FUNCTIONS AND THEIR APPLICATIONS is an innovative precalculus text that incorporates multiple representations of functions real world applications the use of technology in the form of graphing calculators and projects Written in a conversational tone it incorporates reading questions throughout the text to guide the students in their reading Linear exponential logarithmic periodic and power functions are introduced early in the text allowing the rest of the text to be organized around mathematical concepts rather than types of functions Drawing on their experience working on their National Science Foundation grant funded PROJECTS FOR PRECALCULUS the authors incorporated input from many instructors who piloted the materials to create PRECALCULUS A STUDY OF FUNCTIONS AND THEIR APPLICATIONS **Precalculus** Ron Larson, Robert P. Hostetler, Bruce H. Edwards, 2001 **Precalculus** Mustafa A. Munem, James P. Yizze, 2001-08 **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 begin with a faster paced algebra review and introduce 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 *Forthcoming Books* Rose Arny, 2001-06 *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 **Whitaker's Cumulative Book List**, 1978 *APEX PreCalculus*, *Pre-Calculus Demystified* Rhonda Huettenmueller, 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 As 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, 2021 This study guide is designed for students taking courses in precalculus The textbook includes practice problems that will help students to review and sharpen

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A Graphical Approach to Precalculus with Limits Student's Solutions Manual John Hornsby, Margaret L. Lial, Randy Krieger, Gary K. Rockswold, Terry A. Krieger, 2006-03 This edition has evolved to address the needs of today s student While maintaining its unique table of contents and functions based approach the text now includes additional components to build skill address critical thinking solve applications and apply technology to support traditional algebraic solutions It continues to incorporate an open design helpful features careful explanations of topics and a comprehensive package of supplements and study aids to provide new and relevant opportunities for learning and teaching

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