

## 3.4

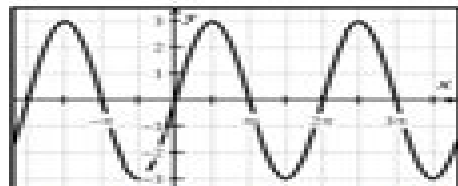
Sine and Cosine  
Function Graphs  
Practice Set 1

Name \_\_\_\_\_

Date \_\_\_\_\_ Period \_\_\_\_\_

Problems 1 – 4, find the amplitude and period of each sine curve. Write an equation for each curve, and describe the transformation from the parent function.

1.



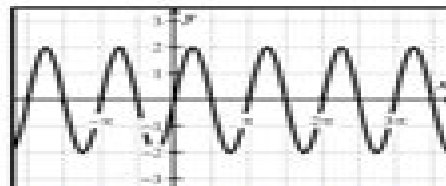
$$|A| = 3$$

$$\text{Period: } 2\pi$$

$$y = 3 \sin x \quad (x, y) \rightarrow (x, 3y)$$

vertical dilation factor: 3

2.



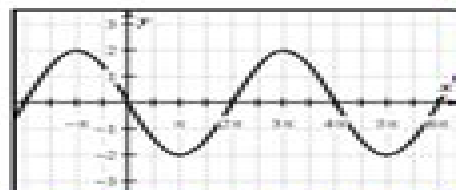
$$|A| = 2$$

$$\text{Period: } \pi$$

$$y = 2 \sin(2x) \quad (x, y) \rightarrow (\frac{1}{2}x, 2y)$$

vertical dilation factor: 2  
horizontal dilation factor:  $\frac{1}{2}$

3.



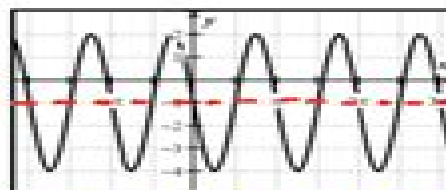
$$|A| = 2$$

$$\text{Period: } 4\pi$$

$$y = -2 \sin(\frac{1}{2}x) \quad (x, y) \rightarrow (2x, -2y)$$

reflect @ x-axis; vertical dilation: 2 Horizontal dilation: 2

4.



$$|A| = 3$$

$$\text{Period: } \pi$$

midline:  $y = -1$

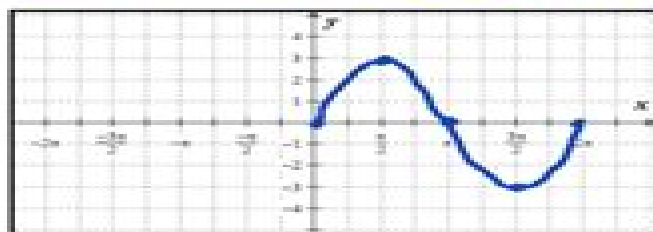
$$y = -3 \sin(2x) - 1 \quad (x, y) \rightarrow (\frac{1}{2}x, 2y - 1)$$

reflect @ x-axis; vertical dilation: 3; horizontal dilation:  $\frac{1}{2}$  shift down 1

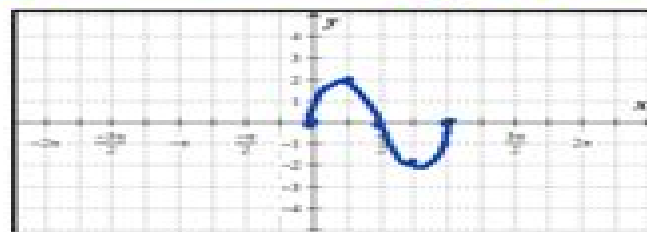
Problems 5 – 8, sketch one cycle of each sine curve. Assume  $a > 0$ . Write an equation for each graph.

5. amplitude 3; period  $2\pi$ 

$$y = 3 \sin(x) \quad (x, y) \rightarrow (x, 3y)$$

6. amplitude 2; period  $\pi$ 

$$y = 2 \sin(2x) \quad (x, y) \rightarrow (\frac{1}{2}x, 2y)$$



# Precalculus Graphing Sine And Cosine Worksheet Answers

**Ron Larson, Robert P. Hostetler, Bruce  
H. Edwards**



## **Precalculus Graphing Sine And Cosine Worksheet Answers:**

**Proceedings of the Seventh Annual International Conference on Technology in Collegiate Mathematics** Gail Goodell,1996     *Annotated Instructors Edition* Bittinger,Beecher,Ellenbogen,2003-06     **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     *Precalculus* Laurel Technical Services,Laurel Technical Services Staff,Dale Varberg,1995-05     Precalculus Marvin L. Bittinger,Judith A. Beecher,David J. Ellenbogen,Judith A. Penna,2012-02-28 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 The Graphs and Models series by Bittinger Beecher Ellenbogen and Penna is known for helping students see the math through its focus on visualization and technology These texts continue to maintain the features that have helped students succeed for years focus on functions visual emphasis side by side algebraic and graphical solutions and real data applications With the Fifth Edition visualization is taken to a new level with technology The authors also integrate smartphone apps encouraging readers to visualize the math In addition ongoing review has been added with new Mid Chapter Mixed Review exercise sets and new Study Guide summaries to help students prepare for tests     *Precalculus* Franklin D. Demana,1993     *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     **Precalculus** Ron Larson,Robert P. Hostetler,Bruce H. Edwards,2001     **Contemporary Precalculus** Thomas W. Hungerford,1994     **Precalculus: Trigonometric ratios** Charlene Edwards,1971     **PRACTIS** Diana McGinnis,Marilyn Reba,2025-05-15 PRACTIS Precalculus Review and Calculus Topics In Sync provides just in time resources to support Calculus I students This volume contains worksheets which may be

assigned to students for targeted remediation of the necessary material to be successful in Calculus Prepared by two highly experienced instructors the twenty eight worksheets cover topics broadly divided into four categories limits differentiation applications of derivatives integration In addition each worksheet comes with an answer key The convenience of the worksheets is enhanced by a table showing how the resources align with popular Calculus textbooks guidelines and suggestions for using the worksheets a handy table summarizing the topics of each worksheet Presentation slides covering the precalculus calculus topics from each worksheet are also available for use by those instructors who wish to present these topics in the classroom or who want to share them with students on their learning management system These can be found at [www.ams.org/bookpages/clrm.76](http://www.ams.org/bookpages/clrm.76)

**Precalculus** Earl William Swokowski,Jeffery Alan Cole,1998 The Eighth Edition of this well respected text part of Swokowski Cole series of mathematics texts features updated discussions to enable students to more easily understand the mathematical concepts new exercises that require students to estimate approximate interpret a result write a summary create a model explore or find a generalization and more examples and exercises that use graphing calculators These changes have been incorporated without sacrificing the mathematical soundness that has been paramount to the success of this text and series

*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** Mark Dugopolski,2001 Building on Mark Dugopolski's name this graphing optional text is designed for the one or two semester precalculus course With faster pacing and less review this is an excellent choice for those students going on to calculus

**A Graphical Approach to Precalculus** E. John Hornsby,Margaret L. Lial,1999 This book is the culmination of many years of teaching experience with the graphing calculator In it the authors treat the standard topics of precalculus solving analytically confirming graphically and motivating through applications Throughout the first five chapters the authors present the various classes of functions studied in a standard precalculus text Chapter One introduces functions and relations using the linear function as the basis for the presentation In this chapter the authors introduce the following approach which is used throughout the next four chapters after introducing a class of function the nature of its graph is examined then the analytic solution of equations based on that function is discussed Students are then shown how to provide graphical support for solutions using a graphing calculator Having established these two methods of solving equations the authors move on to the analytic methods of solving the associated inequalities Students then learn how the analytic solutions of these inequalities can also be supported graphically Finally once the student has a feel for the particular class of function under consideration the authors use analytic and

graphical methods to solve interesting applications involving that function By consistently using this approach with all the different classes of functions students become aware that the authors are always following the same general procedure and just applying that procedure to a new kind of function Throughout the text the authors emphasize the power of technology but provide numerous warnings on its limitations the authors stress that it is only through understanding the mathematical concepts that students can fully appreciate the power of graphing calculators and use technology appropriately

**Precalculus** Franklin D. Demana, Bert K. Waits, Stanley R. Clemens, 1993      **Precalculus: Concepts Through Functions, A Unit Circle Approach to Trigonometry, PDF eBook, Global Edition** Michael Sullivan, 2015-04-17

Precalculus Concepts Through Functions A Unit Circle Approach to Trigonometry focuses on the fundamentals preparation for class practice with homework and reviewing of key concepts With the Concepts Through Functions series the Sullivans expose students to functions in the first chapter and maintain a continuous theme of functions throughout the text This approach ensures students master basic skills and develop the conceptual understanding they need for the course ultimately preparing students for future math courses as well The full text downloaded to your computer With eBooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf available as a free download available online and also via the iPad and Android apps Upon purchase you ll gain instant access to this eBook Time limit The eBooks products do not have an expiry date You will continue to access your digital ebook products whilst you have your Bookshelf installed      *Before Calculus* Louis Leithold, 1994      *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      **Precalculus** Bernard Kolman, Arnold Shapiro, 1990

## **Precalculus Graphing Sine And Cosine Worksheet Answers** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Precalculus Graphing Sine And Cosine Worksheet Answers**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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