

## Sinusoidal Functions Worksheet

For questions # 1-4 start with the parent function then complete the transformations given.

1. Using transformations, graph two cycles of the following trigonometric functions. State the period, phase shift, amplitude, and vertical shift.

a)  $y = \cos(\theta - 60^\circ) + 2$     b)  $y = \sin(\theta + 180^\circ) - 4$     c)  $y = \sin(\theta + 135^\circ) - 1$     d)  $y = \cos(\theta - 120^\circ) - 2$

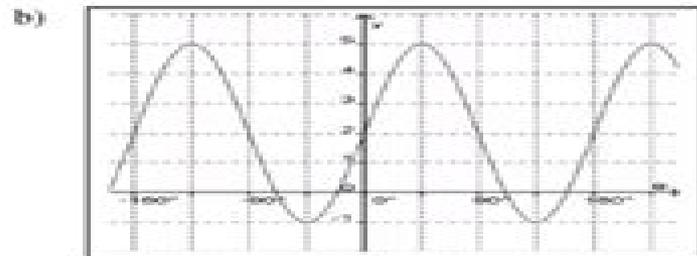
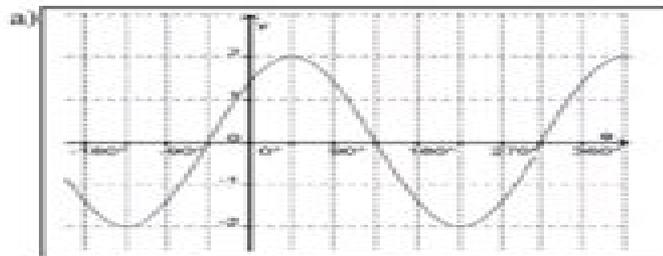
2. Using transformations, graph two cycles of the following trigonometric functions. State the period, phase shift, amplitude, and vertical shift.

a)  $y = 2 \cos(3\theta)$     b)  $y = -3 \sin\left(\frac{1}{2}\theta\right)$     c)  $y = 5 \sin(2\theta)$     d)  $y = -\frac{1}{2} \cos(4\theta)$

3. Using transformations, graph two cycles of the following trigonometric functions. State the period, phase shift, amplitude, and vertical shift.

a)  $y = 4 \cos(\theta + 180^\circ) + 2$     b)  $y = \sin[2(\theta + 30^\circ)] + 3$     c)  $y = 2 \sin[3(\theta - 180^\circ)]$   
 d)  $y = 3 \cos(2\theta - 180^\circ) + 5$     e)  $y = -4 \sin(3\theta + 180^\circ)$     f)  $y = -5 \cos(2\theta - 60^\circ) - 1$

4. Find the sine function  $y = a \sin[k(\theta + d)] + c$  for each graph by listing the amplitude, period, phase shift, and vertical shift first.



# Applications Of Sinusoidal Functions Answer Key

**Patrick Vollmar**



## **Applications Of Sinusoidal Functions Answer Key:**

**Practice Makes Perfect Trigonometry** Carolyn Wheater, 2011-11-11 Don't be tripped up by trigonometry Master this math with practice practice practice Practice Makes Perfect Trigonometry is a comprehensive guide and workbook that covers all the basics of trigonometry that you need to understand this subject Each chapter focuses on one major topic with thorough explanations and many illustrative examples so you can learn at your own pace and really absorb the information You get to apply your knowledge and practice what you've learned through a variety of exercises with an answer key for instant feedback Offering a winning solution for getting a handle on math right away Practice Makes Perfect Trigonometry is your ultimate resource for building a solid understanding of trigonometry fundamentals [Waves and Thermodynamics for JEE Advanced, 3E \(Free Sample\)](#) B. M. Sharma, 2022-05-19 Waves and Thermodynamics for JEE Advanced a Cengage Exam Crack Series product is designed to help aspiring engineers focus on the subject of physics from two standpoints To develop their caliber aptitude and attitude for the engineering field and profession To strengthen their grasp and understanding of the concepts of the subjects of study and their applicability at the grassroots level Each book in this series approaches the subject in a very conceptual and coherent manner While its illustrative solved examples facilitate easy mastering of the concepts and their applications an array of solved problems exposes the students to a variety of questions that they can expect in the examination The coverage and features of this series of books make it highly useful for all those preparing for JEE Main and Advanced and aspiring to become engineers **Lotus 123** D. M. Etter, 1992 **Jacaranda Maths Quest 11 Mathematical Methods VCE Units 1 and 2 3e learnON and Print** Sue Michell, Beverly Langsford Willing, 2022-11-21 Jacaranda Maths Quest 11 Mathematical Methods VCE Units 1 and 2 Everything your students need to succeed The best Mathematics series for the new VCE Study Design Developed by expert Victorian teachers for VCE students Get exam ready past VCAA exam questions all since 2013 Students can start preparing from lesson one with past VCAA exam questions embedded in every lesson Practice customisable SACs available for all Units to build student competence and confidence Learn online with Australia's most powerful learning platform learnON Be confident your students can get unstuck and progress in class or at home For every question online they receive immediate feedback and fully worked solutions Teacher led videos to learn and re learn Instant reports make tracking progress simple Combine units flexibly with the Jacaranda Supercourse An Australian first build the course you've always wanted with the Jacaranda Supercourse You can combine all Methods Units 1 to 4 so students can move backwards and forwards freely Or Methods and General Units 1 2 for when students switch courses The possibilities are endless **Principles and Applications of Electrical Engineering** Giorgio Rizzoni, 2004 The fourth edition of Principles and Applications of Electrical Engineering provides comprehensive coverage of the principles of electrical electronic and electromechanical engineering to non electrical engineering majors Building on the success of previous editions this text focuses on relevant and practical applications that will appeal to all engineering

students     **Fundamentals of Analog and Digital Signal Processing** Li Tan, Jean Jiang, 2007-05-01 The book is suitable to be used as a one semester senior level course for the undergraduate engineering technology program including electronics computer and biomedical engineering technologies However the book could also be useful as a reference for undergraduate engineering students science students and practicing engineers     Principles of Electric Circuits Thomas L. Floyd, 2007 The eighth edition of this best selling dc ac circuits text represents significant positive changes for instructors and students alike As in prior editions Principles of Electric Circuits Eighth Edition retains its best features Comprehensive straightforward coverage of the basics of electrical components and circuits Clear explanations and applications of fundamental circuit laws and analysis in a variety of basic circuits with an emphasis on applications Extensive troubleshooting coverage     *The Shock and Vibration Digest* ,1987-07     *Conference Record of the Thirty-Seventh Asilomar Conference on Signals, Systems & Computers, November 9-12, 2003, Pacific Grove, California* Michael B. Matthews, 2003     **Trigonometry** Michael Sullivan, 1999 For undergraduate courses in College Algebra Algebra and Trigonometry Trigonometry and Precalculus A proven motivator for students of diverse mathematical backgrounds this text explores mathematics within the context of real life using understandable realistic applications consistent with the abilities of any student Graphing techniques are emphasized including a thorough discussion of polynomial rational exponential and logarithmic functions and conics The use of a graphing calculator is optional     **Intelligent Medical Technologies and Biomedical Engineering: Tools and Applications** Shukla, Anupam, Tiwari, Ritu, 2010-06-30 Intelligent Medical Technologies and Biomedical Engineering Tools and Applications helps young researchers and developers understand the basics of the field while highlighting the various developments over the last several years Broad in scope and comprehensive in depth this volume serves as a base text for any project or work into the domain of medical diagnosis or other areas of medical engineering     *Algebra & Trigonometry* Robert Blitzer, 2004     Physics Briefs ,1991     **Journal of the Aeronautical Sciences** ,1952     EDN ,1962     **The Application and Numerical Solution of Integral Equations** R.S. Anderssen, F.R. de Hoog, M.A. Lukas, 1980-03-31 This publication reports the proceedings of a one day seminar on The Application and Numerical Solution of Integral Equations held at the Australian National University on Wednesday November 29 1978 It was organized by the Computing Research Group Australian National University and the Division of Mathematics and Statistics CSIRO Due to unforeseen circumstances Dr M L Dow was unable to participate At short notice Professor D Elliott reviewed Cauchy singular integral equations but a paper on same is not included in these proceedings The interested reader is referred to the recent translation of V V Ivanov The Theory of Approximate Methods and their Application to the Numerical Solution of Singular Integral Equations Noordhoff International Publishers Leyden 1976 An attempt was made to structure the program to the extent that the emphasis was on the numerical solution of integral equations for which known applications exist along with explanations of how and why integral equation formalisms arise In addition the programme

reflected the broad classification of most integral equations as either singular or non singular as either Fredholm or Volterra and as either first or second kind      **Current Technical Papers** ,1955      **Recent Applications in Computational Mechanics** Dimitris L. Karabalis,1986      11th International Conference on Numerical Methods in Fluid Dynamics Douglas L. Dwoyer,M. Yousuff Hussaini,Robert G. Voigt,1989 Along with almost a hundred research communications this volume contains six invited lectures of lasting value They cover modeling in plasma dynamics the use of parallel computing for simulations and the applications of multigrid methods to Navier Stokes equations as well as other surveys on important techniques An inaugural talk on computational fluid dynamics and a survey that relates dynamical systems turbulence and numerical solutions of the Navier Stokes equations give an exciting view on scientific computing and its importance for engineering physics and mathematics      *Zeitschrift Für Naturforschung* ,2009

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