

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) $y = \cos(\theta - 120^\circ) - 2$

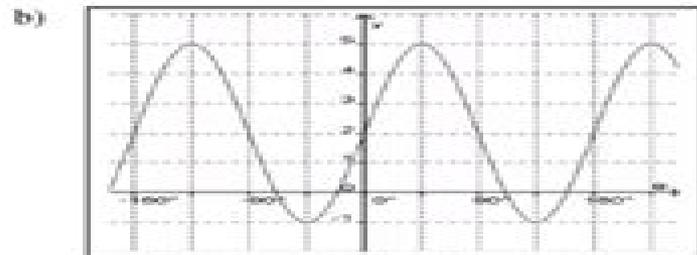
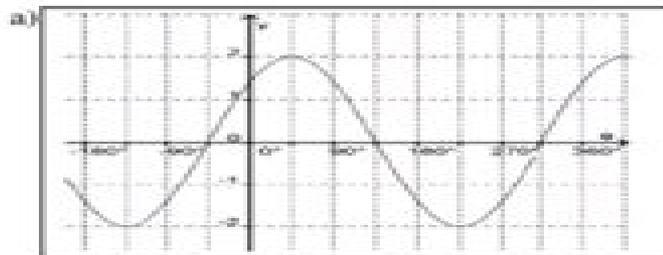
2. Using transformations, graph two cycles of the following trigonometric functions. State the period, phase shift, amplitude, and vertical shift.

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

Mike Jess



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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

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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

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Conference Record of the Thirty-Seventh Asilomar Conference on Signals, Systems & Computers, November 9-12, 2003, Pacific Grove, California Michael B. Matthews, 2003

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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

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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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