

CHAPTER 6:

Sinusoidal Functions

NOTE: Answers are given to the same number of decimal points as the numbers in each question.

Getting Started, p. 344

1. a) x represents the number of times the price is reduced by \$2. The factor $(30 - 2x)$ represents the price of one T-shirt in terms of the number of times the price is reduced; the factor $(100 + 20x)$ represents the total number of T-shirts sold in terms of the number of times the price is reduced.

b) Since the revenue generated by T-shirt sales can be modelled by the function

$R(x) = (30 - 2x)(100 + 20x)$, for $R(x)$ to be equal to 0, one or both of the factors must be equal to 0. $100 + 20x$ can only be equal to 0 if x is negative, and this is not possible. Therefore, $30 - 2x = 0$.

$$-2x = -30$$

$$x = 15 \text{ times}$$

c) Create a table with two columns. In the first column put the number of price reductions. In the second column, put the corresponding revenue. Continue until the revenue starts to decrease.

Number of Price Reductions	Revenue (dollars) $R(x) = (30 - 2x)(100 + 20x)$
0	3000
1	3360
2	3640
3	3840
4	3960
5	4000
6	3960

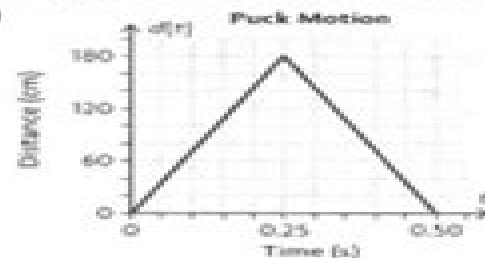
The price will have to be dropped 5 times to reach the maximum revenue.

d) From the table created in part c, it's apparent that the maximum revenue is \$4000.

e) The price of a T-shirt is equal to $30 - 2x$, so to obtain the maximum revenue, the T-shirts will sell for $30 - 2(5)$ or 20 dollars.

f) The number of T-shirts sold is equal to $100 + 20x$, so to obtain the maximum revenue, $100 + 20(5)$ or 200 T-shirts will be sold.

2. a)



The puck travelled 180 cm to the opposite end of the table in the first 0.25 s and 180 cm back in the next 0.25 s for a total distance of 360 cm.

b) The puck was farthest away from where it was shot when it was 180 cm away, and this occurred after 0.25 s.

c) The puck travelled 180 cm in the first 0.25 s.

$$\frac{180 \text{ cm}}{0.25 \text{ s}} = \frac{720 \text{ cm}}{1 \text{ s}} = 720 \text{ cm/s}$$

d) The domain is all possible values of the time, or t , while the range is all possible values of the distance, or d . Therefore, the domain is $\{t \in \mathbb{R} : 0 \leq t \leq 0.5\}$, and the range is $\{d \in \mathbb{R} : 0 \leq d \leq 180\}$.

3. a)



Within the larger triangle there exist two smaller right triangles. The smaller right triangle with a hypotenuse of 15 cm has the measurements of two angles given: 40° and 90° . Therefore, the measurement of the unknown angle within that triangle is 50° . With that angle

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The Mathematical-Function Computation Handbook Nelson H.F. Beebe,2017-08-20 This highly comprehensive handbook provides a substantial advance in the computation of elementary and special functions of mathematics extending the function coverage of major programming languages well beyond their international standards including full support for decimal floating point arithmetic Written with clarity and focusing on the C language the work pays extensive attention to little understood aspects of floating point and integer arithmetic and to software portability as well as to important historical architectures It extends support to a future 256 bit floating point format offering 70 decimal digits of precision Select Topics and Features references an exceptionally useful author maintained MathCW website containing source code for the book s software compiled libraries for numerous systems pre built C compilers and other related materials offers a unique approach to covering mathematical function computation using decimal arithmetic provides extremely versatile appendices for interfaces to numerous other languages Ada C C Fortran Java and Pascal presupposes only basic familiarity with computer programming in a common language as well as early level algebra supplies a library that readily adapts for existing scripting languages with minimal effort supports both binary and decimal arithmetic in up to 10 different floating point formats covers a significant portion with highly accurate implementations of the U S National Institute of Standards and Technology s 10 year project to codify mathematical functions This highly practical text reference is an invaluable tool for advanced undergraduates recording many lessons of the intermingled history of computer hardware and software numerical algorithms and mathematics In addition professional numerical analysts and others will find the handbook of real interest and utility because it builds on research by the mathematical software community over the last four decades **New**

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frameworks *Basic Mathematics for Electronics* Nelson Magor Cooke,1992 Basic Mathematics for Electronics combines electronic theory and applications with the mathematical principles necessary to solve a wide range of circuit problems Coverage of mathematical topics reflects current trends in electronics A complete chapter is devoted to Karnaugh mapping to help students cope with the greater complexity of modern digital circuit devices Marginal notes indicate areas of special interest in computers and computer usage To facilitate learning material is presented in a block form that employs a two color single column format After the initial chapters sections may be studied independently As each new topic is introduced illustrative examples and numerous problems graded from easy to difficult are given for reinforcement Answers to odd numbered problems are provided in the back of the book The Answers to Even Numbered Problems booklet contains answers and selected worked out solutions A computerized Test Bank and Transparency Masters are also available with this edition

Technological Innovation as an Evolutionary Process John M. Ziman, John Ziman, 2003-09-18 Ground breaking yet non technical analysis of the analogy that technological artefacts evolve like biological organisms **STP National Curriculum Mathematics** Linda Bostock, 1999 This book is designed to prepare pupils for intermediate tier GCSE with all UK examination boards this book presents text examples exercises practical work investigations and puzzles Summaries and revision exercises are phased throughout the book for extra consolidation *Applied Mechanics Reviews* , 1948

Dissemination and Implementation Research in Health Ross C. Brownson, Graham A. Colditz, Enola Knisley Proctor, 2023 The definitive work in D I research now completely updated and expanded Dissemination and Implementation Research in Health is a practical guide to making research more consequential a collection assembled and written by today s leading D I researchers **Theoretical Approaches to Non-Numerical Problem Solving** R. B. Banerji, M. D. Mesarovic, 2012-12-06 Advances in computer technology have pointed out the next important area of computer applications solution of non numerical problems It is hardly necessary to emphasize the importance of these kind of problems First of all most of the decisions one has to make in real life situations are non numerical in the first instance and can be represented as numerical problems only as approximations which are often only partially valid Second to use the computer to its full potential it should be employed as a logical machine capable of deduction and not just as a numerical calculating machine Thus the computer would extend man s capability for logical reasoning and not just for his capability to do fast and accurate calculation It is not a new area indeed non numerical problems are central in fields such as artificial intelligence heuristic programming pattern recognition classification and information processing and retrieval etc However it is fair to assess that progress in the area has not been quite as expected One of the reasons was a lack of conceptual and theoretical framework in which to investigate different classes of non numerical problems to improve understanding of various types of problems and methods for their solutions and furthermore to enable the methods which have been proven as effective in one situation to be used in another situation with appropriately similar structure **Teacher File Year 8/1** David Baker, 2001 These resources

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Distance Geometry Antonio Mucherino, Carlile Lavor, Leo Liberti, Nelson Maculan, 2012-12-22 This volume is a collection of research surveys on the Distance Geometry Problem DGP and its applications It will be divided into three parts Theory Methods and Applications Each part will contain at least one survey and several research papers The first part Theory will deal with theoretical aspects of the DGP including a new class of problems and the study of its complexities as well as the relation between DGP and other related topics such as distance matrix theory Euclidean distance matrix completion problem multispherical structure of distance matrices distance geometry and geometric algebra algebraic distance geometry theory visualization of K dimensional structures in the plane graph rigidity and theory of discretizable DGP symmetry and complexity The second part Methods will discuss mathematical and computational properties of methods developed to the problems considered in the first chapter including continuous methods based on Gaussian and hyperbolic smoothing difference of convex functions semidefinite programming branch and bound discrete methods based on branch and prune geometric build up graph rigidity and also heuristics methods based on simulated annealing genetic algorithms tabu search variable neighborhood search Applications will comprise the third part and will consider applications of DGP to NMR structure calculation rational drug design molecular dynamics simulations graph drawing and sensor network localization This volume will be the first edited book on distance geometry and applications The editors are in correspondence with the major contributors to the field of distance geometry including important research centers in molecular biology such as Institut Pasteur in Paris

Hypercomplex Analysis and Its Applications Nelson Faustino, Milton Ferreira, Uwe Kähler, Nelson Vieira, 2025-07-02 This book contains a collection of short papers based on the presentations given at the international conference on Hypercomplex Analysis and its Applications celebrating Paula Cerejeiras 60th birthday These papers present the latest results as well as overviews on specific topics in the areas of hypercomplex and harmonic analysis as well as their connections with partial differential equations and spectral theory

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