

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

$$R(x) = (30 - 2x)(100 + 20x), \text{ for } R(x)$$

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 $\{t \in \mathbf{R} \mid 0 \leq t \leq 2.5\}$, and the range is $\{d \in \mathbf{R} \mid 0 \leq d \leq 180\}$.

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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Calculus for the Life Sciences Frederick R. Adler, Miroslav Lovric, *Applied Mechanics Reviews*, 1967

Mathematical Reviews, 1991 **Soil Plasticity** W.F. Chen, G.Y. Baladi, 1985-11-01 This book is addressed primarily to civil engineers familiar with such traditional topics as strength of materials soil mechanics and theory of elasticity and structures but less familiar with the modern development of the mathematical theory of soil plasticity necessary to any engineer working under the general heading of nonlinear analysis of soil structure system This book will satisfy his needs in the case of the soil medium It introduces the reader to the theory of soil plasticity and its numerical implementation into computer programs The theory and method of computer implementation presented here are appropriate for solving nonlinear static dynamic problems in soil mechanics and are applicable for finite difference and finite element computer codes A sample computer model subroutine is developed and this is used to study some typical soil mechanics problems With its comprehensive coverage and simple concise presentation the book will undoubtedly prove to be very useful for consulting engineers research and graduate students in geotechnical engineering *Photothermal Spectroscopy Methods* Stephen E. Bialkowski, Nelson G.C. Astrath, Mikhail A. Proskurnin, 2019-03-21 Covers the advantages of using photothermal spectroscopy over conventional absorption spectroscopy including facilitating extremely sensitive measurements and non destructive analysis This unique guide to the application and theory of photothermal spectroscopy has been newly revised and updated to include new methods and applications and expands on applications to chemical analysis and material science The book covers the subject from the ground up lists all practical considerations needed to obtain accurate results and provides a working knowledge of the various methods in use *Photothermal Spectroscopy Methods* Second Edition includes the latest methods of solid state and materials analysis and describes new chemical analysis procedures and apparatuses in the analytical chemistry sections It offers a detailed look at the optics physical principles of heat transfer and signal analysis Information in the temperature change and optical elements in homogeneous samples and photothermal spectroscopy in homogeneous samples has been updated with a better description of diffraction effects and calculations Chapters on analytical measurement and data processing and analytical applications are also updated and include new information on modern applications and photothermal microscopy Finally the *Photothermal Spectroscopy of Heterogeneous Sample* chapter has been expanded to incorporate new methods for materials analysis New edition updates and expands on applications to chemical analysis and materials science including new methods of solid state and materials analysis Includes new chemical analysis procedures and apparatuses Provides an unmatched resource that develops a consistent mathematical basis for signal description consolidates previous theories and provides invaluable insight into laser technology *Photothermal Spectroscopy Methods* Second Edition will appeal to researchers from both academia and industry graduate students postdocs research scientists and professors in the general field of analytical chemistry optics and materials science and

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Computer Book Review ,1988 **Journal of Mathematics and Mechanics** ,1970 **Elasticity, Plasticity, and Structure of Matter** Roelof Houwink,1958 **The Plebs** ,1943 *International Aerospace Abstracts* ,1993 Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards ,2005 *Aero/space Engineering* ,1959 **British Books** ,1965

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