

4-4

Word Problem Practice

Graphing Sine and Cosine Functions

1. **METEOROLOGY** The average monthly temperatures for Baltimore, Maryland, are shown below.

Month	Temperature (°F)	Month	Temperature (°F)
Jan	31	Jul	77
Feb	35	Aug	75
Mar	44	Sep	68
Apr	54	Oct	61
May	64	Nov	51
June	72	Dec	37

- a. Determine the amplitude, period, phase shift, and vertical shift of a sinusoidal function that models the monthly temperatures using $x = 1$ to represent January.

amplitude = 22.5; **period** = 12
months; **phase shift** = -9
months; **vertical shift** = 54.5°

- b. Write an equation of a sinusoidal function that models the monthly temperatures.

Sample answer:

$$y = 22.5 \cos\left(\frac{\pi}{12}x + \frac{9\pi}{12}\right) + 54.5$$

- c. According to your model, what is Baltimore's average temperature in July? December?

Sample answer: 77°; 37°

2. **BOATING** A buoy, bobbing up and down in the water as waves pass it, moves from its highest point to its lowest point and back to its highest point every 1.8 seconds. The distance between its highest and lowest points is 3 feet.

- a. Determine the amplitude and period of a sinusoidal function that models the bobbing buoy.

1.5; 1.8 s

- b. Write an equation of a sinusoidal function that models the bobbing buoy, using $x = 0$ as the highest point.

Sample answer:

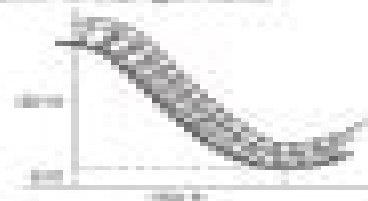
$$y = 1.5 \cos\left(\frac{\pi}{1.8}x\right)$$

3. A student graphed a periodic function with a period of π . The student then translated the graph c units to the right and obtained the original graph. Describe the relationship between c and π .

Sample answer: c is a positive multiple of π .

4. **DIVING** Michael is pushing her brother Bobby on a rope swing over a creek. When she starts the swing, he is 1 foot over the water from the edge of the creek. After 2 seconds, Bobby is 11 feet over the water past the edge of the creek. Assume that the distance from the edge of the creek varies sinusoidally with time and that the distance y is positive when Bobby is over the water and negative when he is over land. Write a trigonometric function that models the distance Bobby is from the edge of the creek at time t seconds. $y = -9 \cos\left(\frac{\pi}{2}t + 2\right)$

5. **ROLLER COASTER** Part of a roller coaster track is a sinusoidal function. The high and low points are separated by 100 feet horizontally and 40 feet vertically as shown. The low point is 5 feet above the ground.



- a. Write a sinusoidal function that models the distance the roller coaster track is above the ground as a given horizontal distance x .

$$y = 47 \cos\left(\frac{\pi}{100}x + 47\right)$$

- b. Point A is 40 feet to the right of the y -axis. How far above the ground is the track at point A ? **24.4 ft**

Sinusoidal Word Problems Practice

Robert Wichard Pohl



Sinusoidal Word Problems Practice:

Technical Information Pilot ,1952 **VLSI Testing** Stanley Leonard Hurst,1998 Hurst an editor at the Microelectronics Journal analyzes common problems that electronics engineers and circuit designers encounter while testing integrated circuits and the systems in which they are used and explains a variety of solutions available for overcoming them in both digital and mixed circuits Among his topics are faults in digital circuits generating a digital test pattern signatures and self tests structured design for testability testing structured digital circuits and microprocessors and financial aspects of testing The self contained reference is also suitable as a textbook in a formal course on the subject Annotation copyrighted by Book News Inc Portland OR *An Introductory Guide to EC Competition Law and Practice* Valentine Korah,1994 Spelling Across Orthographies Teresa Limpo,Naymé Salas,Marie Van Reybroeck,Sao Luis Castro,2021-07-29 *Electronics* Ralph Judson Smith,1987-02-13 Electrical quantities Circuit principles Signal processing circuits Cathode ray tubes Semiconductor diodes Transistors and integrated circuits Logic elements Digital devices Microprocessors Alternating current circuits Operational amplifiers Large signal amplifiers Small signal models Small signal amplifiers Feedback amplifiers **English Mechanic and Mirror of Science** ,1914 The Electrician ,1897 **Engineering** ,1928 **Engineering; an Illustrated Weekly Journal** ,1903 *The Encyclopædia Britannica* Hugh Chisholm,James Louis Garvin,1926 *The Encyclopædia Britannica* James Louis Garvin,1926 *The Electrical Review* ,1926 Telegraphic Journal and Electrical Review ,1925 *The Lancet* ,1917 **British Medical Journal** ,1927 *VII Latin American Congress on Biomedical Engineering CLAIB 2016, Bucaramanga, Santander, Colombia, October 26th -28th, 2016* Isnardo Torres,John Bustamante,Daniel A. Sierra,2017-04-05 This volume presents the proceedings of the CLAIB 2016 held in Bucaramanga Santander Colombia 26 27 28 October 2016 The proceedings presented by the Regional Council of Biomedical Engineering for Latin America CORAL offer research findings experiences and activities between institutions and universities to develop Bioengineering Biomedical Engineering and related sciences The conferences of the American Congress of Biomedical Engineering are sponsored by the International Federation for Medical and Biological Engineering IFMBE Society for Engineering in Biology and Medicine EMBS and the Pan American Health Organization PAHO among other organizations and international agencies to bring together scientists academics and biomedical engineers in Latin America and other continents in an environment conducive to exchange and professional growth **Specifications and Drawings of Patents Issued from the United States Patent Office** United States. Patent Office,1900 Electrical World ,1906 *Physical Principles of Mechanics and Acoustics* Robert Wichard Pohl,1951 **The Electrical Journal** ,1897

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