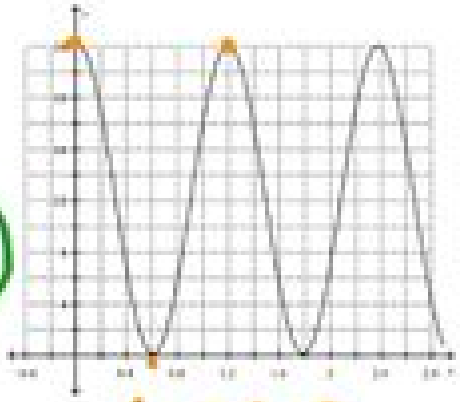
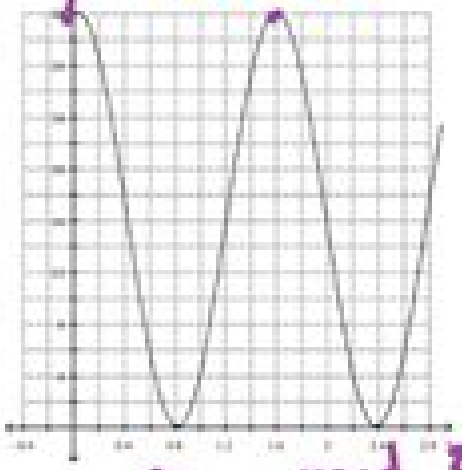
Lesson 5- Applications of Sinusoidal Functions

Example 2: Alexis and Colin own a car and a pickup truck. They noticed that the odometers of the two vehicles gave different values for the same distance. As part of their investigation into the cause, they put a chalk mark on the outer edge of a tire on each vehicle. The following graphs show the height of the tires as they rotated while the vehicles were driven at the same slow, constant speed. What can you determine about the characteristics of the tires from these graphs?

Car



Truck



$C = 2\pi r$

Car

$2(\pi)(12)$

$= 75.4$ in

$2(\pi)(16)$

100.5 in

max -24

min -0

tire diameter of 24

mid $\frac{24+0}{2} = 12$

max 32

min 0

diameter 32

mid $\frac{32+0}{2} = 16$ ← middle

Period: 1.2s

Period: 1.6s

Applications For Sinusoidal Functions

Vladimir Semenovich Pugachev

Applications For Sinusoidal Functions:

Applications of Walsh Functions and Sequency Theory Heinz Schreiber,G. Ferell Sandy,1974 **Applications of Walsh and Related Functions, with an Introduction to Sequency Theory** K. G. Beauchamp,1984 **Applications of Walsh Functions** ,1972* **Principles of Digital Image Processing** Dr. D. Rajasekhar,Dr. Rashmi,Mr. R.A. Manoj Kumar,S. Dhanalakshmi,2024-10-18 Principles of Digital Image Processing the techniques and methodologies used in the manipulation and analysis of digital images The fundamental concepts of image representation enhancement restoration and transformation providing readers with a solid understanding of how digital images are processed The book emphasizes both theoretical principles and practical applications making it an essential resource for students researchers and professionals in the fields of computer vision machine learning and digital media *Applications of Walsh Functions and Sequence Theory* ,1970 Walsh Functions and Their Applications K. G. Beauchamp,1975 **Quadrature Signal Functions and Their Applications** Donald Kessler Weaver (Jr.),1958 *Quantitative EEG Analysis Methods and Clinical Applications* Shanbao Tong,Nitish V. Thankor,2009 This authoritative volume provides an overview of basic and advanced techniques used in quantitative EEG qEEG analysis The book provides a wide range of mathematical tools used in qEEG from single channel discriptors to the interactions among multi channel EEG analysis Moreover you find coverage of the latest and most popular application in the field including mental and neurological disease detection monitoring physiological and cognitive phenomena research and fMRI Uranium Processing and Properties Jonathan S. Morrell,Mark J. Jackson,2013-07-22 Uranium Processing and Properties describes developments in uranium science engineering and processing and covers a broad spectrum of topics and applications in which these technologies are harnessed This book offers the most up to date knowledge on emerging nuclear technologies and applications while also covering new and established practices for working with uranium supplies The book also aims to provide insights into current research and processing technology developments in order to stimulate and motivate innovation among readers Topics covered include casting technology plate and sheet rolling machining of uranium and uranium alloys forming and fabrication techniques corrosion kinetics nondestructive evaluation and thermal modeling **Applications of Walsh Functions** R. W. Zeek,A. E. Showalter,1973* **Application of Walsh Functions** ,1973 Proceedings of the Symposium on the Applications of Walsh Functions **Network Analysis with Applications** William D. Stanley,2003 This book presents general methods of circuit and network analysis by employing differential and integral calculus and transform methods with a strong emphasis on application Chapter topics cover basic circuit laws circuit analysis methods capacitive and inductive transients and equivalent circuits initial final and first order circuits LaPlace transforms circuit analysis with LaPlace transforms transfer functions sinusoidal steady state analysis frequency response analysis and bode plots waveform analysis and Fourier analysis For learners of advanced circuit analysis network analysis and linear systems **Theory and Applications of Walsh Functions** ,1971 **Electronics**

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