

## Sinusoidal Word Problems

1. The height of the tip of an airplane propeller above the ground, once the engines reach full speed, can be modelled by a sinusoidal function. The propeller makes 200 revolutions per second. At  $t=0$  the tip of the propeller is at a minimum height above the ground at 3.8m. Its maximum height is 5.3m. Model this with an equation.



200 rps

$$\text{amp } \frac{(5.3 - 3.8)}{2} = 0.75$$

$$\text{axis } \frac{5.3 + 3.8}{2} = 4.55$$

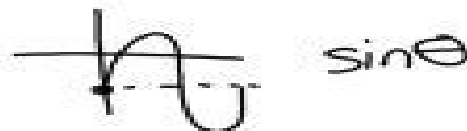
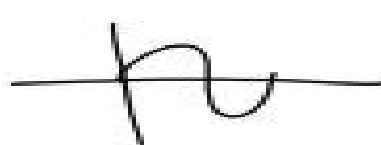
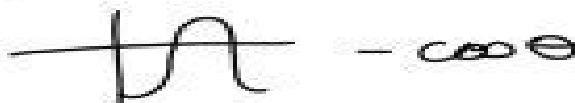
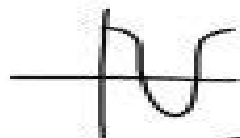
200 rev take 1 sec

$$1 \text{ rev } 1 \div 200 = 0.005 \text{ period}$$

$$\frac{360}{k} = 0.005$$

$$k = \frac{360}{0.005} = 72000$$

$$h(t) \leftarrow y = -0.75 \cos 72000t + 4.55$$



# Sinusoidal Word Problems With Answers

**S Ashworth**



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**Ghosts of molecules - The case of the "memory of water"** Francis BEAUVAIS, 2015-08-03 The story of a scientific controversy the case of memory of water A true scientific thriller with detailed descriptions of disputed experiments performed by the French immunologist Jacques Benveniste with many details of the famous conflict with the scientific journal Nature and its Director John Maddox [www.millemondes.fr](http://www.millemondes.fr)

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*Final Report on an Evaluation of the California Mathematics Diagnostic Testing Project* John Richard Novak, 1996

Precalculus Cynthia Y. Young, 2010-01-19 Engineers looking for an accessible approach to calculus will appreciate Young's introduction The book offers a clear writing style that helps reduce any math anxiety they may have while developing their problem solving skills It incorporates Parallel Words and Math boxes that provide detailed annotations which follow a multi modal approach Your Turn exercises reinforce concepts by allowing them to see the connection between the exercises and examples A five step problem solving method is also used to help engineers gain a stronger understanding of word problems

**Software Engineering** Sajan Mathew, 2007 This book is a comprehensive step by step guide to software engineering This book provides an introduction to software engineering for students in undergraduate and post graduate programs in computers

**New Scientist**, 1999

**Analysis of Electric Circuits** Egon Brenner, Mansour Javid, 1959

**Applied Mechanics Reviews**, 1967

The Analysis and Design of Linear Circuits Roland E. Thomas, Albert J. Rosa, Gregory J. Toussaint, 2016-01-05 The Analysis and Design of Linear Circuits 8th Edition provides an introduction to the analysis design and evaluation of electric circuits focusing on developing the learners design intuition The text emphasizes the use of computers to assist in design and evaluation Early introduction to circuit design motivates the student to create circuit solutions and optimize designs based on real world constraints This text is an unbound three hole punched version

**Muscles, Reflexes, and Locomotion** Thomas A. McMahon, 2020-11-10 The description for this book Muscles Reflexes and Locomotion will be forthcoming

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*Electrical Engineering Instructions* Lester Elmer Beck, 1953

**Technical Education and Industrial Training**, 1963

College Algebra and Trigonometry Linda Gilbert, Jimmie Gilbert, 1986

**Linguistics and Language Behavior Abstracts**, 2008-02

**Sequency Theory** Henning F. Harmuth, 1977

*The Electrical Review*, 1912

*The Electrical Journal*, 1899

*IRE Transactions on Circuit Theory*, 1954

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