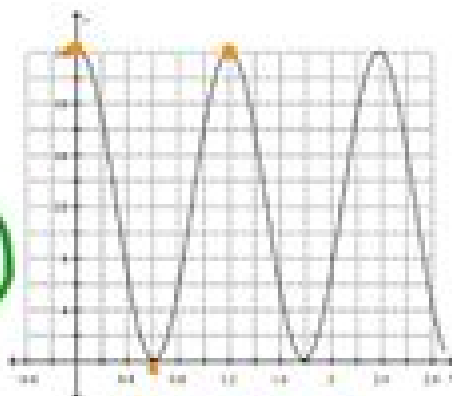# Lesson 5 - Applications of Sinusoidal Functions

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?

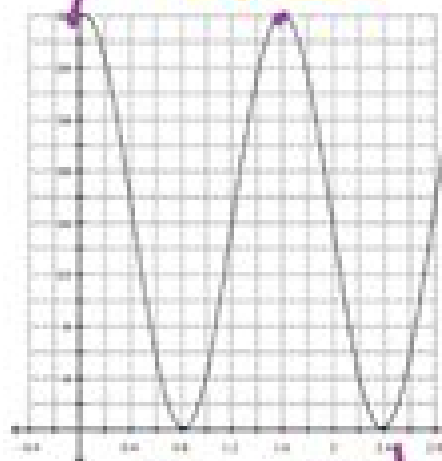$$C = 2\pi r$$

car

$$2(\pi)(12)$$
$$= 75.4 \text{ in}$$

$$2(\pi)(16)$$
$$100.5 \text{ in}$$

car

Truck

max − 24
min − 0
tire diameter of 24

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

max 32
min 0
diameter 32

mid $\dfrac{32 + 0}{2}$
$= 16$
middle

Period: 1.2s

Period: 1.6s

Applications For Sinusoidal Functions

M Woodhall

Applications For Sinusoidal Functions:

This book delves into Applications For Sinusoidal Functions. Applications For Sinusoidal Functions is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Applications For Sinusoidal Functions, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

   - Chapter 1: Introduction to Applications For Sinusoidal Functions
   - Chapter 2: Essential Elements of Applications For Sinusoidal Functions
   - Chapter 3: Applications For Sinusoidal Functions in Everyday Life
   - Chapter 4: Applications For Sinusoidal Functions in Specific Contexts
   - Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Applications For Sinusoidal Functions. This chapter will explore what Applications For Sinusoidal Functions is, why Applications For Sinusoidal Functions is vital, and how to effectively learn about Applications For Sinusoidal Functions.
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4. In chapter 3, this book will examine the practical applications of Applications For Sinusoidal Functions in daily life. The third chapter will showcase real-world examples of how Applications For Sinusoidal Functions can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Applications For Sinusoidal Functions in specific contexts. The fourth chapter will explore how Applications For Sinusoidal Functions is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Applications For Sinusoidal Functions. The final chapter will summarize the key points that have been discussed throughout the book.
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