

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



max - 24
min - 0

tire diameter
of 24

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

Period: 1.2s

TRUCK



max 32
min 0
diameter 32

$$\text{mid } \frac{32+0}{2} = 16 \rightarrow \text{middle}$$

Period: 1.6s

$$C = 2\pi r$$

car

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

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

Applications Of Sinusoidal Functions

D Keegan



Applications Of Sinusoidal Functions:

Decoding **Applications Of Sinusoidal Functions**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Applications Of Sinusoidal Functions**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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