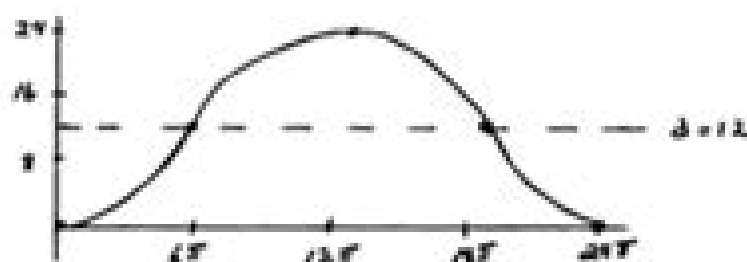


Applications of Sinusoidal Functions Answers

1.

a.

$$\text{Period} = \text{Circumference} = \pi d = 24\pi \approx 75.4 \text{ inches}$$



b.

$$a = \frac{\text{max} - \text{min}}{2} = \frac{24 - 0}{2} = 12 \text{ inches} \quad b = \frac{2\pi}{34\pi} = \frac{1}{12} \approx 0.083$$

c. 'period' begins $\frac{1}{4}$ of the period length to the right of the minimum value

$$\frac{1}{4} \text{ of } 34\pi = 8\pi \approx 18.85$$

$$d = \frac{\text{max} - \text{min}}{2} = \frac{24 - 0}{2} = 12 \text{ inches}$$

$$y = 12 \sin \frac{1}{12}(x - 6\pi) + 12$$

c.

$$\text{At 15 inches: } y = 12 \sin \frac{1}{12}(15 - 6\pi) + 12 \approx 8.2 \text{ inches above the pavement.}$$

$$\text{At 100 inches: } y = 12 \sin \frac{1}{12}(100 - 6\pi) + 12 \approx 17.5 \text{ inches above the pavement.}$$

Applications Of Sinusoidal Functions Assignment Answers

David Calcutt, Laurie Tetley



Applications Of Sinusoidal Functions Assignment Answers:

Electric Circuits Fundamentals Thomas L. Floyd, 2004 This book is designed to help readers obtain a thorough understanding of the basic principles of electric circuits It provides a practical coverage of electric circuits DC AC and an introduction to electronic devices that technician level readers can readily understand Well illustrated and clearly written the book contains a full color layout that enhances visual interest and ease of use This acclaimed book covers all the basics of DC and AC circuits Safety tips key terms and a comprehensive set of appendices are included An important reference tool for service shop technicians industrial manufacturing technicians laboratory technicians field service technicians engineering assistants and associate engineers technical writers and those in technical sales

Satellite Communications David Calcutt, Laurie Tetley, 1994-08-15 Satellites are increasingly used for global communications as well as for radio and television transmissions With the growth of mobile communications and of digital technology the use of satellite systems is set to expand substantially and already all students of electronics or communications engineering must study the subject This book steers a middle path between offering a basic understanding of the process of communication by satellite and the methodology used and the extensive mathematical analysis normally adopted in similar texts It presents the basic concepts using as much mathematical content as is necessary to make the process understandable The principles introduced are backed up by examples of actual applications showing how professional systems engineers have achieved the required system performance capabilities The practical systems chosen are representative of modern day applications and comprise an international communications system an international maritime system and a regional system ENC Focus ,2001

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