

CHAPTER 6:

Sinusoidal Functions

NOTE: Answers are given to the same number of decimal points as the numbers in each question.

Getting Started, p. 344

1. a) x represents the number of times the price is reduced by \$2. The factor $(30 - 2x)$ represents the price of one T-shirt in terms of the number of times the price is reduced; the factor $(100 + 20x)$ represents the total number of T-shirts sold in terms of the number of times the price is reduced.

b) Since the revenue generated by T-shirt sales can be modelled by the function

$$R(x) = (30 - 2x)(100 + 20x), \text{ for } R(x)$$

to be equal to 0, one or both of the factors must be equal to 0. $100 + 20x$ can only be equal to 0 if x is negative, and this is not possible. Therefore, $30 - 2x = 0$.

$$-2x = -30$$

$$x = 15 \text{ times}$$

c) Create a table with two columns. In the first column put the number of price reductions.

In the second column, put the corresponding revenue. Continue until the revenue starts to decrease.

Number of Price Reductions	Revenue (dollars) $R(x) = (30 - 2x)(100 + 20x)$
0	3000
1	3360
2	3640
3	3840
4	3960
5	4000
6	3960

The price will have to be dropped 5 times to reach the maximum revenue.

d) From the table created in part c, it's apparent that the maximum revenue is \$4000.

e) The price of a T-shirt is equal to $30 - 2x$, so to obtain the maximum revenue, the T-shirts will sell for $30 - 2(5)$ or 20 dollars.

f) The number of T-shirts sold is equal to $100 + 20x$, so to obtain the maximum revenue, $100 + 20(5)$ or 200 T-shirts will be sold.

2. a)



The puck travelled 180 cm to the opposite end of the table in the first 0.25 s and 180 cm back in the next 0.25 s for a total distance of 360 cm.

b) The puck was farthest away from where it was shot when it was 180 cm away, and this occurred after 0.25 s.

c) The puck travelled 180 cm in the first 0.25 s.

$$\frac{180 \text{ cm}}{0.25 \text{ s}} = \frac{720 \text{ cm}}{1 \text{ s}} = 720 \text{ cm/s}$$

d) The domain is all possible values of the time, or t , while the range is all possible values of the distance, or d . Therefore, the domain is $\{t \in \mathbf{R} \mid 0 \leq t \leq 0.5\}$, and the range is $\{d \in \mathbf{R} \mid 0 \leq d \leq 180\}$.

3. a)



Within the larger triangle there exist two smaller right triangles. The smaller right triangle with a hypotenuse of 15 cm has the measurements of two angles given: 40° and 90° . Therefore, the measurement of the unknown angle within that triangle is 50° . With that angle

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Table of Contents Nelson Functions 11 Solutions Chapter 1 Fbtest

1. Understanding the eBook Nelson Functions 11 Solutions Chapter 1 Fbtest
 - The Rise of Digital Reading Nelson Functions 11 Solutions Chapter 1 Fbtest
 - Advantages of eBooks Over Traditional Books
2. Identifying Nelson Functions 11 Solutions Chapter 1 Fbtest
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Nelson Functions 11 Solutions Chapter 1 Fbtest
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nelson Functions 11 Solutions Chapter 1 Fbtest
 - Personalized Recommendations
 - Nelson Functions 11 Solutions Chapter 1 Fbtest User Reviews and Ratings
 - Nelson Functions 11 Solutions Chapter 1 Fbtest and Bestseller Lists
5. Accessing Nelson Functions 11 Solutions Chapter 1 Fbtest Free and Paid eBooks
 - Nelson Functions 11 Solutions Chapter 1 Fbtest Public Domain eBooks
 - Nelson Functions 11 Solutions Chapter 1 Fbtest eBook Subscription Services
 - Nelson Functions 11 Solutions Chapter 1 Fbtest Budget-Friendly Options
6. Navigating Nelson Functions 11 Solutions Chapter 1 Fbtest eBook Formats

- ePub, PDF, MOBI, and More
 - Nelson Functions 11 Solutions Chapter 1 Fbtest Compatibility with Devices
 - Nelson Functions 11 Solutions Chapter 1 Fbtest Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Nelson Functions 11 Solutions Chapter 1 Fbtest
 - Highlighting and Note-Taking Nelson Functions 11 Solutions Chapter 1 Fbtest
 - Interactive Elements Nelson Functions 11 Solutions Chapter 1 Fbtest
8. Staying Engaged with Nelson Functions 11 Solutions Chapter 1 Fbtest
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nelson Functions 11 Solutions Chapter 1 Fbtest
9. Balancing eBooks and Physical Books Nelson Functions 11 Solutions Chapter 1 Fbtest
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nelson Functions 11 Solutions Chapter 1 Fbtest
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Nelson Functions 11 Solutions Chapter 1 Fbtest
- Setting Reading Goals Nelson Functions 11 Solutions Chapter 1 Fbtest
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Nelson Functions 11 Solutions Chapter 1 Fbtest
- Fact-Checking eBook Content of Nelson Functions 11 Solutions Chapter 1 Fbtest
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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