

# 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:  $40^\circ$  and  $90^\circ$ . Therefore, the measurement of the unknown angle within that triangle is  $50^\circ$ . With that angle

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## **Table of Contents Nelson Advanced Functions Chapter 6 Solutions**

1. Understanding the eBook Nelson Advanced Functions Chapter 6 Solutions
  - The Rise of Digital Reading Nelson Advanced Functions Chapter 6 Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Nelson Advanced Functions Chapter 6 Solutions
  - 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 Advanced Functions Chapter 6 Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Nelson Advanced Functions Chapter 6 Solutions
  - Personalized Recommendations
  - Nelson Advanced Functions Chapter 6 Solutions User Reviews and Ratings
  - Nelson Advanced Functions Chapter 6 Solutions and Bestseller Lists

5. Accessing Nelson Advanced Functions Chapter 6 Solutions Free and Paid eBooks
  - Nelson Advanced Functions Chapter 6 Solutions Public Domain eBooks
  - Nelson Advanced Functions Chapter 6 Solutions eBook Subscription Services
  - Nelson Advanced Functions Chapter 6 Solutions Budget-Friendly Options
6. Navigating Nelson Advanced Functions Chapter 6 Solutions eBook Formats
  - ePub, PDF, MOBI, and More
  - Nelson Advanced Functions Chapter 6 Solutions Compatibility with Devices
  - Nelson Advanced Functions Chapter 6 Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Nelson Advanced Functions Chapter 6 Solutions
  - Highlighting and Note-Taking Nelson Advanced Functions Chapter 6 Solutions
  - Interactive Elements Nelson Advanced Functions Chapter 6 Solutions
8. Staying Engaged with Nelson Advanced Functions Chapter 6 Solutions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Nelson Advanced Functions Chapter 6 Solutions
9. Balancing eBooks and Physical Books Nelson Advanced Functions Chapter 6 Solutions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Nelson Advanced Functions Chapter 6 Solutions
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Nelson Advanced Functions Chapter 6 Solutions
  - Setting Reading Goals Nelson Advanced Functions Chapter 6 Solutions
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Nelson Advanced Functions Chapter 6 Solutions
  - Fact-Checking eBook Content of Nelson Advanced Functions Chapter 6 Solutions
  - 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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