

**CHAPTER 11** **Chapter Test**  
*Form C, continued*

8. Write the equation of the line that passes through the points  $(-10, 6)$  and  $(15, 1)$  in slope-intercept form.

$$y = -\frac{1}{5}x + 4$$

9. Identify a point the line for  $y + 7 = -\frac{3}{5}(x - 4)$  passes through and identify the slope of the line.

**Possible answer:**  $(4, -7)$ ;  $-\frac{3}{5}$

10. Write the point-slope form of the equation for a line with a slope of  $-\frac{1}{7}$  that passes through the point  $(-21, \frac{1}{2})$ .

$$y - \frac{1}{2} = -\frac{1}{7}(x + 21)$$

Find each equation of direct variation, given that  $y$  varies directly with  $x$ .

11.  $y$  is  $-63$  when  $x$  is  $81$

$$y = -\frac{7}{9}x$$

12.  $y$  is  $\frac{3}{5}$  when  $x$  is  $\frac{1}{2}$

$$y = \frac{6}{5}x$$

Graph each inequality.

13.  $\frac{1}{4}y > -\frac{1}{6}x + \frac{1}{2}$



14.  $-3x + 4y \leq 12$



Use a line of best fit to answer the question.

15. The value of a car decreases as it is driven more miles. The data are shown below. Find a line of best fit for the data. Use the equation to predict the value of the car at 24,000 miles.

Miles	Value of Car
10,000	\$14,500
12,000	\$14,150
14,000	\$13,815
16,000	\$13,650
18,000	\$13,500

**Possible answer:**  $y = -0.125x + 15,673$   
**15,673; about \$12,673**

16. In order to rent an apartment, Vik makes an initial payment of \$1535, and each month he must pay \$750. The equation  $y = 750x + 1535$  represents the amount of money Vik has paid after  $x$  months. After 2 years, how much rent money has Vik paid?

**\$19,535**

# Holt Physics Chapter 17 Test

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### **Table of Contents Holt Physics Chapter 17 Test**

1. Understanding the eBook Holt Physics Chapter 17 Test
  - The Rise of Digital Reading Holt Physics Chapter 17 Test
  - Advantages of eBooks Over Traditional Books
2. Identifying Holt Physics Chapter 17 Test
  - 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 Holt Physics Chapter 17 Test
  - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Physics Chapter 17 Test
  - Personalized Recommendations
  - Holt Physics Chapter 17 Test User Reviews and Ratings
  - Holt Physics Chapter 17 Test and Bestseller Lists

5. Accessing Holt Physics Chapter 17 Test Free and Paid eBooks
  - Holt Physics Chapter 17 Test Public Domain eBooks
  - Holt Physics Chapter 17 Test eBook Subscription Services
  - Holt Physics Chapter 17 Test Budget-Friendly Options
6. Navigating Holt Physics Chapter 17 Test eBook Formats
  - ePub, PDF, MOBI, and More
  - Holt Physics Chapter 17 Test Compatibility with Devices
  - Holt Physics Chapter 17 Test Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Holt Physics Chapter 17 Test
  - Highlighting and Note-Taking Holt Physics Chapter 17 Test
  - Interactive Elements Holt Physics Chapter 17 Test
8. Staying Engaged with Holt Physics Chapter 17 Test
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Holt Physics Chapter 17 Test
9. Balancing eBooks and Physical Books Holt Physics Chapter 17 Test
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Holt Physics Chapter 17 Test
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Holt Physics Chapter 17 Test
  - Setting Reading Goals Holt Physics Chapter 17 Test
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Holt Physics Chapter 17 Test
  - Fact-Checking eBook Content of Holt Physics Chapter 17 Test
  - 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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