

**LT6.4**

1. Which is a graph of an odd function with a negative leading coefficient?



2. If  $P(x) \rightarrow -\infty$  as  $x \rightarrow +\infty$  and  $P(x) \rightarrow -\infty$  as  $x \rightarrow -\infty$ , which of the following is true?

- A)  $P(x)$  is odd and has a negative leading coefficient. B)  $P(x)$  is odd and has a positive leading coefficient.  
C)  $P(x)$  is even and has a negative leading coefficient. D)  $P(x)$  is even and has a positive leading coefficient.

3. Given  $P(x) = -5x^4 - 3x^2 + 11x^2 + 16x - 9$ , which of the following is true?

- A)  $P(x)$  is odd, and as  $x \rightarrow +\infty$ ,  $P(x) \rightarrow -\infty$ . B)  $P(x)$  is odd, and as  $x \rightarrow +\infty$ ,  $P(x) \rightarrow +\infty$ .  
C)  $P(x)$  is even, and as  $x \rightarrow +\infty$ ,  $P(x) \rightarrow -\infty$ . D)  $P(x)$  is even, and as  $x \rightarrow +\infty$ ,  $P(x) \rightarrow +\infty$ .

**LT7.1**

4. Which of the following functions is an example of exponential growth?

- A)  $a(x) = 1.5(0.85)^x$  B)  $b(x) = 4.07x^{1.3}$  C)  $c(x) = 0.5(2)^x$  D)  $d(x) = \log_3 x^4$

5. Which expression shows the value of a \$2500 investment after it has grown by 4.5% per year for 12 years?

- A)  $2500(1.045)^{12}$  B)  $2500(1.45)^{12}H$  C)  $2500(1.045)^{144}$  D)  $2500(1.45)^{144}$

6. A balloon with a small leak loses 0.5% of its volume each day. If it originally contained 40 liters of gas, what is the volume of the gas after one week?

- A)  $40(.05)^7$  B)  $40(.95)^7$  C)  $40 - 40(.005)^7$  D)  $40(.995)^7$

7. Which of the following functions is an example of exponential decay?

- A)  $a(x) = 0.5(1.2)^x$  B)  $b(x) = 2.4(0.86)^x$  C)  $c(x) = 0.5(x)^{2.3}$  D)  $d(x) = \log_{0.5} x$

**LT7.2**

8. Given  $f(x) = 3x^2 - 3x + 5$  and  $g(x) = -7x + 4$ , find  $(f - g)(x)$ .

- A)  $3x^2 - 10x + 9$  B)  $3x^2 - 10x + 1$  C)  $3x^2 + 4x + 9$  D)  $3x^2 + 4x + 1$

9. Given  $f(x) = 2x^2 - x + 3$  and  $g(x) = 2x - 4$ , find  $g(f(x))$ .

- A)  $4x^2 - 2x + 2$  B)  $8x^2 - 34x + 39$  C)  $4x^3 - 6x^2 + 2x - 12$  D)  $4x^3 - 10x^2 + 10x - 12$

# 95postal Practice Exam

**Charles J. Brooks, Will Schmied, Ed  
Tittel, Orin Thomas**

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## **Table of Contents 95postal Practice Exam**

1. Understanding the eBook 95postal Practice Exam
  - The Rise of Digital Reading 95postal Practice Exam
  - Advantages of eBooks Over Traditional Books
2. Identifying 95postal Practice Exam
  - 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 95postal Practice Exam
  - User-Friendly Interface
4. Exploring eBook Recommendations from 95postal Practice Exam
  - Personalized Recommendations
  - 95postal Practice Exam User Reviews and Ratings
  - 95postal Practice Exam and Bestseller Lists

5. Accessing 95postal Practice Exam Free and Paid eBooks
  - 95postal Practice Exam Public Domain eBooks
  - 95postal Practice Exam eBook Subscription Services
  - 95postal Practice Exam Budget-Friendly Options
6. Navigating 95postal Practice Exam eBook Formats
  - ePub, PDF, MOBI, and More
  - 95postal Practice Exam Compatibility with Devices
  - 95postal Practice Exam Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 95postal Practice Exam
  - Highlighting and Note-Taking 95postal Practice Exam
  - Interactive Elements 95postal Practice Exam
8. Staying Engaged with 95postal Practice Exam
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 95postal Practice Exam
9. Balancing eBooks and Physical Books 95postal Practice Exam
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 95postal Practice Exam
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine 95postal Practice Exam
  - Setting Reading Goals 95postal Practice Exam
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 95postal Practice Exam
  - Fact-Checking eBook Content of 95postal Practice Exam
  - 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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