

**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)  $2500(1.45)^{12}$       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)  $4x^3 - 10x^2 + 10x - 12$

# Gradpoint Test Answers Algebra 1

**L Cohen**



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## **Table of Contents Gradpoint Test Answers Algebra 1**

1. Understanding the eBook Gradpoint Test Answers Algebra 1
  - The Rise of Digital Reading Gradpoint Test Answers Algebra 1
  - Advantages of eBooks Over Traditional Books
2. Identifying Gradpoint Test Answers Algebra 1
  - 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 Gradpoint Test Answers Algebra 1
  - User-Friendly Interface
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  - Gradpoint Test Answers Algebra 1 User Reviews and Ratings
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    - Gradpoint Test Answers Algebra 1 Enhanced eBook Features
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    - Highlighting and Note-Taking Gradpoint Test Answers Algebra 1
    - Interactive Elements Gradpoint Test Answers Algebra 1
  8. Staying Engaged with Gradpoint Test Answers Algebra 1
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Gradpoint Test Answers Algebra 1
  9. Balancing eBooks and Physical Books Gradpoint Test Answers Algebra 1
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Gradpoint Test Answers Algebra 1
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Gradpoint Test Answers Algebra 1
    - Setting Reading Goals Gradpoint Test Answers Algebra 1
    - Carving Out Dedicated Reading Time
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    - Fact-Checking eBook Content of Gradpoint Test Answers Algebra 1
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

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- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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