

## Algebra 2 Chapter 6 Test Review

### Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question. PLEASE WRITE LEGIBLY!!  
*IF I CAN'T READ IT, IT'S WRONG!*

- \_\_\_\_\_ 1. Determine which binomial is a factor of  $4x^3 + 10x^2 + 2x - 4$ .  
a.  $x - 4$                       b.  $x - 2$                       c.  $x + 2$                       d.  $x + 4$
- \_\_\_\_\_ 2. Determine which binomial is not a factor of  $4x^4 - 21x^3 - 46x^2 + 219x + 180$ .  
a.  $x - 5$                       c.  $4x + 3$   
b.  $x + 3$                       d.  $x + 4$
- \_\_\_\_\_ 3. Find the rational roots of  $x^4 + 8x^3 + 7x^2 - 40x - 60 = 0$ .  
a. 2, 6                      b. -6, -2                      c. -2, 6                      d. -6, 2

**Find the roots of the polynomial equation.**

- \_\_\_\_\_ 4.  $2x^3 + 2x^2 - 19x + 20 = 0$   
a.  $\frac{3+i}{2}, \frac{3-i}{2}, -4$                       c.  $\frac{-3+i}{2}, \frac{-3-i}{2}, -4$   
b.  $\frac{-3+2i}{2}, \frac{-3-2i}{2}, 4$                       d.  $\frac{3+2i}{2}, \frac{3-2i}{2}, 4$
- \_\_\_\_\_ 5.  $x^4 - 5x^3 + 11x^2 - 25x + 30 = 0$   
a.  $-2, -3, \pm i\sqrt{5}$                       c.  $-2, 3, \pm \sqrt{5}$   
b.  $2, -3, \pm \sqrt{5}$                       d.  $2, 3, \pm i\sqrt{5}$

### Short Answer

**Factor the expression.**

6.  $x^3 - 64$
7.  $x^4 - 20x^2 + 64$
8. The table shows the number of hybrid cottonwood trees planted in tree farms in Oregon since 1995. Find a cubic function to model the data and use it to estimate the number of cottonwoods planted in 2006.

Years since 1995	1	3	5	7	9
Trees planted (in thousands)	1.3	18.3	70.5	177.1	357.3

9. Use the Rational Root Theorem to list all possible rational roots of the polynomial equation  $x^3 - 6x^2 - 9x - 5 = 0$ . Do not find the actual roots.

**Find the roots of the polynomial equation.**

10.  $x^3 - 2x^2 + 10x + 136 = 0$
11. Write a polynomial function in standard form with zeros at 4, -3, and -5.
12. Write  $5x^2(-2x^2 - 3x^3)$  in standard form. Then classify it by degree and number of terms.

# Glencoe Algebra 2 Chapter 5

**H Kauffman**



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## **Table of Contents Glencoe Algebra 2 Chapter 5**

1. Understanding the eBook Glencoe Algebra 2 Chapter 5
  - The Rise of Digital Reading Glencoe Algebra 2 Chapter 5
  - Advantages of eBooks Over Traditional Books
2. Identifying Glencoe Algebra 2 Chapter 5
  - 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 Glencoe Algebra 2 Chapter 5
  - User-Friendly Interface
4. Exploring eBook Recommendations from Glencoe Algebra 2 Chapter 5
  - Personalized Recommendations
  - Glencoe Algebra 2 Chapter 5 User Reviews and Ratings
  - Glencoe Algebra 2 Chapter 5 and Bestseller Lists
5. Accessing Glencoe Algebra 2 Chapter 5 Free and Paid eBooks
  - Glencoe Algebra 2 Chapter 5 Public Domain eBooks
  - Glencoe Algebra 2 Chapter 5 eBook Subscription Services
  - Glencoe Algebra 2 Chapter 5 Budget-Friendly Options

6. Navigating Glencoe Algebra 2 Chapter 5 eBook Formats
  - ePub, PDF, MOBI, and More
  - Glencoe Algebra 2 Chapter 5 Compatibility with Devices
  - Glencoe Algebra 2 Chapter 5 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Glencoe Algebra 2 Chapter 5
  - Highlighting and Note-Taking Glencoe Algebra 2 Chapter 5
  - Interactive Elements Glencoe Algebra 2 Chapter 5
8. Staying Engaged with Glencoe Algebra 2 Chapter 5
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Glencoe Algebra 2 Chapter 5
9. Balancing eBooks and Physical Books Glencoe Algebra 2 Chapter 5
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Glencoe Algebra 2 Chapter 5
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Glencoe Algebra 2 Chapter 5
  - Setting Reading Goals Glencoe Algebra 2 Chapter 5
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Glencoe Algebra 2 Chapter 5
  - Fact-Checking eBook Content of Glencoe Algebra 2 Chapter 5
  - 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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