

## 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.

# Holt Algebra 2 Chapter 6 Test

**M Woodhall**



**Holt Algebra 2 Chapter 6 Test:**

The book delves into Holt Algebra 2 Chapter 6 Test. Holt Algebra 2 Chapter 6 Test is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Holt Algebra 2 Chapter 6 Test, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Holt Algebra 2 Chapter 6 Test
- Chapter 2: Essential Elements of Holt Algebra 2 Chapter 6 Test
- Chapter 3: Holt Algebra 2 Chapter 6 Test in Everyday Life
- Chapter 4: Holt Algebra 2 Chapter 6 Test in Specific Contexts
- Chapter 5: Conclusion

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