Algebra 2 Honors Final Exam Study Guide Fall 2017

1. Divide $\dfrac{8x^3+20x^2-18x^2-6x^2-5x^2+15x^2-25x-6}{2x^2+5x-4}$

2. Rewrite the equation of the parabola in vertex form: $y = a(x-h)^2 + k$ by completing the square: $y = -5x^2 + 40x - 75$.

3. Simplify: $\dfrac{2-10}{4-1}$

4. State any domain restrictions, and simplify:

a) $\dfrac{9a^2+6ab+b^2}{9a^2-b^2}$

b) $\dfrac{3-x}{x-3}$

c) $\dfrac{2x^2+5x-20}{-2x^2+15x-25}$

5. The point-slope form of a line is $y - y_1 = m(x - x_1)$

a) A line of slope $-\frac{1}{2}$ passes through the point $(8, -7)$. Write the equation of this line in point-slope form.

b) Consider the equation: $y - 3 = \frac{1}{2}(x - 7)$

i) Name one obvious point this line passes through.

ii) What is the slope of this line?

6. Karen is analyzing a polynomial $P(x)$. She analyzed its roots, and determined the sign of the function for the following values and intervals:

x	$x < -7$	$x = -7$	$-7 < x < -2$	$x = -2$	$-2 < x < 1$	$x = 1$	$1 < x < 3$	$x = 3$	$x > 3$
$P(x)$	$-$	0	$+$	0	$-$	0	$+$	0	$-$

a) Make a sketch of this function, clearly labeling its roots.

b) Assuming no root has a multiplicity greater than 2, what is the degree of $P(x)$?

7. Show an analysis of each function to determine if it is an even function, an odd function, or neither:

a) $f(x) = x^3 + 2x$

b) $g(x) = x^2 - 4x^2$

c) $h(x) = (x^2 + 2x)(x^2 - 4x^2)$

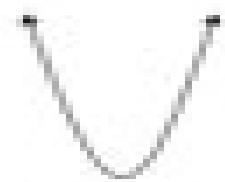
8. A polynomial with a given degree is shown. In each case, the number and nature of the root(s) are indicated. Draw in a potential x-axis so that your graph matches the roots as described. If the question is not possible, write "not possible."

a) Degree 4 polynomial, four distinct real roots.

b) Degree 4 polynomial, three distinct real roots, one of which has a multiplicity of 2.

c) Degree 5 polynomial, 2 complex roots and 2 distinct real roots, one of the real roots has a multiplicity of 2.

d) Degree 2 polynomial, no real roots.



9. Carl the commuter drives to work at 50 mph, because there is little traffic, but when he comes home, he has to drive 20 miles per hour slower due to traffic. It takes him 8 minutes longer to get home. Assuming he drives the same distance to and from work, how far is his work from his house? Caution: Don't mix units of hours with units of minutes!

10. A chemist has 2 liters of a solution which is 30% acid and an unlimited amount of a solution which is 10% acid. How much of the 10% solution of acid must be added to the 2 liters to bring it to a 27% concentration of acid?

11. Apply the remainder theorem to show that $x + 1$ is a factor of $20x^{10} + 17x - 3$.

Algebra 2 Final Study Guide

Tao Wei

Algebra 2 Final Study Guide:

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Table of Contents Algebra 2 Final Study Guide

1. Understanding the eBook Algebra 2 Final Study Guide
    - The Rise of Digital Reading Algebra 2 Final Study Guide
    - Advantages of eBooks Over Traditional Books
2. Identifying Algebra 2 Final Study Guide
    - 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 Algebra 2 Final Study Guide
    - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra 2 Final Study Guide
    - Personalized Recommendations
    - Algebra 2 Final Study Guide User Reviews and Ratings
    - Algebra 2 Final Study Guide and Bestseller Lists
5. Accessing Algebra 2 Final Study Guide Free and Paid eBooks

- Algebra 2 Final Study Guide Public Domain eBooks
- Algebra 2 Final Study Guide eBook Subscription Services
- Algebra 2 Final Study Guide Budget-Friendly Options

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