

Algorithm 2: Biomass Final Exam Study Guide Fall 2017

1. Divide $\frac{3x^2 - 20x - 116}{2x^2 - 2x - 4}$

2. Rewrite the equation of the parabola in vertex form: $y = 2x^2 - 10x - 116 = 2(x - 5)^2 - 125$

3. Simplify: $\frac{2x^2 - 10x - 116}{2x^2 - 2x - 4}$

4. State any obvious restrictions, and simplify:

a) $\frac{2x^2 - 10x - 116}{2x^2 - 2x - 4}$

b) $\frac{2(x - 5)^2 - 125}{2(x - 5)(x + 1)}$

c) $\frac{2(x - 5)^2 - 125}{2(x - 5)(x + 1)}$

5. The point-slope form of a line is $y = p_1 + m(x - p_2)$

a) A line of slope -1 passes through the point $(5, -7)$. Write the equation of this line in point-slope form.

b) Consider the equation $y = 2x + 3(x - 7)$

c) Name one obvious point this line passes through.
d) What is the slope of this line?

6. When is multiplying a polynomial $P(x)$ - like $x^2 + 3x + 2$, and $x^2 - 4x + 4$ - the right choice for the following multiplication:

	$(x - 2)$	$(x + 2)$	$(x^2 - 4x + 4)$	$(x^2 + 3x + 2)$	$(x^2)(x^2 - 4x + 4)$	$(x + 2)(x^2 + 3x + 2)$	$(x^2 - 4x + 4)(x^2 + 3x + 2)$	$(x^2 + 3x + 2)(x^2 + 3x + 2)$
$P(x)$	-	-	-	-	-	-	-	-

a) Making a sketch of this function, classify following the rules.

b) Assuming one root has a multiplicity greater than 1, what is the degree of $P(x)$?

7. Sketch an analysis of each function for determine what is an even function, an odd function, or neither.

a) $y = x^2 + 2x$

b) $y = x^3 + x^2 - x^4$

c) $y = x^3 - 3x^2 + 2x^3 - 4x^4$

8. A polynomial with a given degree is shown. In each case, the number and nature of the roots are indicated. Show in a polynomial of this degree that your graph matches the roots as described.

a) Degree 4 polynomial, three distinct real roots.



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



c) The questions in part (a) are possible. Show in a polynomial of this degree that your graph matches the roots as described.

a) Degree 3 polynomial.

• one positive root and 2
• negative roots and 2
• distinct real roots, one of the
real roots has a multiplicity
of 2.

b) Degree 3 polynomial, no
real roots.



9. Carl the construction worker needs to travel 200 miles, because there is little traffic, but without the traffic, he has to drive 200 miles per hour rather than 60 mph. It takes him 2 hours longer to get home. Assuming he drives the same distance to and from work, how far is his round trip home like home? (Assume Carl does not make stops while route of travel.)

10. A solution has 2 liters of a solution which is 100% acid, and an unlimited amount of a solution which is 100% acid. When exactly half the 100% solution will need to be added to the 2 liters to bring it to a 27.78% concentration of acid?

11. Apply the remainder theorem to show that $x + 1$ is a factor of $20x^3 + 4x^2 - 3$.

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Table of Contents Algebra 2 Study Guide Final Exam

1. Understanding the eBook Algebra 2 Study Guide Final Exam
 - The Rise of Digital Reading Algebra 2 Study Guide Final Exam
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra 2 Study Guide Final 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 Algebra 2 Study Guide Final Exam
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra 2 Study Guide Final Exam
 - Personalized Recommendations

- Algebra 2 Study Guide Final Exam User Reviews and Ratings
- Algebra 2 Study Guide Final Exam and Bestseller Lists

5. Accessing Algebra 2 Study Guide Final Exam Free and Paid eBooks

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

6. Navigating Algebra 2 Study Guide Final Exam eBook Formats

- ePUB, PDF, MOBI, and More
- Algebra 2 Study Guide Final Exam Compatibility with Devices
- Algebra 2 Study Guide Final Exam Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Algebra 2 Study Guide Final Exam
- Highlighting and Note-Taking Algebra 2 Study Guide Final Exam
- Interactive Elements Algebra 2 Study Guide Final Exam

8. Staying Engaged with Algebra 2 Study Guide Final Exam

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Algebra 2 Study Guide Final Exam

9. Balancing eBooks and Physical Books Algebra 2 Study Guide Final Exam

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Algebra 2 Study Guide Final Exam

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Algebra 2 Study Guide Final Exam

- Setting Reading Goals Algebra 2 Study Guide Final Exam
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Algebra 2 Study Guide Final Exam

- Fact-Checking eBook Content of Algebra 2 Study Guide Final 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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