

Algebra 2 Honors Final Exam Study Guide Fall 2017

1. Divide $\frac{3x^3 + 22x^2 + 35x + 4}{2x^2 + 2x + 4}$

2. Rewrite the equation of the parabola in vertex form: $y = x^2 - 6x + 8$ by completing the square: $y = a(x-h)^2 + k$

3. Simplify: $\frac{2-x}{2-x}$

4. Show any domain restrictions, and simplify:

a) $\frac{3x^2 + 5x + 2}{3x^2 - 2}$

b) $\frac{2-x}{x+3}$

c) $\frac{2x^2 + 5x + 20}{-2x^2 + 13x + 20}$

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

a) A line of slope -2 passes through the point $(5, -7)$. Write the equation of this line in point-slope form.

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

- 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.

	$x < -1$	$-1 < x < 2$	$2 < x < 3$	$x = 3$	$3 < x < 4$	$x = 4$	$4 < x < 5$	$x = 5$	$x > 5$
$P(x)$	+	-	+	0	-	0	+	0	-

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

b) Assuming no root has a multiplicity greater than 1, 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) $f(x) = x^2 + 2x$

b) $g(x) = x^2 - 4x^3$

c) $h(x) = x^3 + 2x(x^2 + 4x)$

8. A polynomial with a given degree is shown. In each case, the number and nature of the roots 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, three distinct real roots.



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



c) Degree 3 polynomial, 2 complex roots and 2 distinct real roots, one of the real roots has a multiplicity of 2.



d) Degree 3 polynomial, no real roots.



9. Carl the commuter drives to work at 30 mph, because there is little traffic, but when he crosses town, he has to drive 20 miles per hour slower due to traffic. It takes him 2 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 just write off hours with units of minutes!)

10. A chemist has 3 liters of a solution which is 10% acid and an unlimited amount of a solution which is 20% acid. How much of the 20% solution of acid must be added to the 3 liters to bring it to a 17% concentration of acid?

11. Apply the remainder theorem to show that $x + 1$ is a factor of $20x^3 + 47x - 3$.

Honors Algebra 2 Final Exam Study Guide

H Kauffman



Honors Algebra 2 Final Exam Study Guide:

Honors Algebra 2 Final Exam Study Guide: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Honors Algebra 2 Final Exam Study Guide : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and thrilling novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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