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

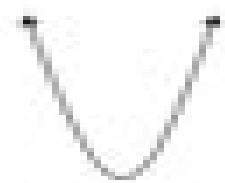
8. A polynomial with a given degree is shown. In each case, the number and nature of the root(s) are indicated. Draw in a potential x-axis so that your graph matches the roots as described. If the question is not possible, write "not possible."

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 Ii Final Exam Study Guide

Camilla Rothe

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