

# Algebra 2 Honors Final Exam Study Guide Fall 2017

1. Divide  $\frac{3x^3 + 20x^2 + 18x - 4}{2x^2 + 2x + 4}$

2. Rewrite the equation of the parabola in vertex form:  $y = x^2 - 10x + 1$  by completing the square:  $y = a(x-h)^2 + k$

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

4. State any domain restrictions, and simplify:

a)  $\frac{3x^2 + 5x + 2}{3x^2 - 2} \quad \left| \quad \text{b) } \frac{2-x}{x+3} \quad \right| \quad \text{c) } \frac{2x^2 + 5x + 20}{-2x^2 + 13x + 20}$

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

a) A line of slope  $-\frac{1}{2}$  passes through the point  $(5, -7)$ . Write the equation of this line in point-slope form.

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

a) Name one obvious point this line passes through.

a) 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.

	$x < -1$	$x = -1$	$-1 < x < -\frac{1}{2}$	$x = -\frac{1}{2}$	$-\frac{1}{2} < x < 1$	$x = 1$	$1 < x < 3$	$x = 3$	$x > 3$
$P(x)$	-	0	+	0	-	0	+	0	-

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

b) Assuming one 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)  $g(x) = x^3 + 4x^5$       c)  $h(x) = (x^2 + 2)(x^3 + 4x^5)$

8. A polynomial with a given degree is shown. In each case, the number and nature of the roots are indicated. Draw a potential x-axis or that y-axis 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 3 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 computer driver is stuck at 75 mph, because there is little traffic, but when he crosses lanes, 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 home? (Caution: Don't mix units of 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 10% acid. How much of the 10% solution of acid must be added to the 3 liters to bring it to a 20% concentration of acid?

11. Apply the remainder theorem to show that  $x + 1$  is a factor of  $20x^3 + 57x + 3$ .

# Algebra Ii Spring Final Study Guide

**D Keegan**



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3 solubility 4 ... 8A WORKBOOK ANSWERS 1 Students' own answers, making reference to the need for food for energy and/or growth, repairing the body, health. Some students may list specific ... Answers 3 See Student Book answer to Question 5. (above) although there are no ... 1 Any suitable answer that refers to making space for more plants and animals as ... Answer Key Workbook 2 Workbook 2 Answer Key 5. Answer Key. 2. Lesson 1. 1. What is matter? Matter is everything around us. Matter is anything that has mass and takes up space. What ... WORKBOOK · ANSWER KEY WORKBOOK · ANSWER KEY [www.cui.edu.ar/Speakout.aspx](http://www.cui.edu.ar/Speakout.aspx) • Ciclo de Perfeccionamiento 1 • © Pearson. B1 satisfied 2 exhausted. 3 fascinating 4 embarrassing. 5 ... Introductory Astronomy - 3rd Edition - Solutions and Answers Find step-by-step solutions and answers to Introductory Astronomy - 9780321820464, as well as thousands of textbooks so you can move forward with ... AGS World History Workbook Answer Key - Softcover AGS World History Workbook Answer Key by AGS - ISBN 10: 078542217X - ISBN 13: 9780785422174 - AGS - 2001 - Softcover. AGS World History Grades 5-8 Teacher Edition An introduction to the concept is included along with questions to ask (and their answers). Activities, lessons with scripted question, ELL/ESL strategies, ... AGS World History Workbook Answer Key (P) AGS World History Workbook Answer Key (P) · ISBN# 078542217X · Shipping Weight: 0.7 lbs · 0 Units in Stock · Published by: American Guidance Service. Ags World History Workbook Answer Key - US Legal Forms Complete Ags World History Workbook Answer Key online with US Legal Forms. Easily fill out PDF blank, edit, and sign them. Save or instantly send your ready ... world history student workbook - Amazon.com World History covers 8,000 years from the beginning of human society to contemporary times. With an easy-to-follow format, this text encourages students ... AGS World History Workbook | PDF | Ancient Greece Name Date Period Chapter 1. Workbook. Do You Remember? 1. Directions: Write the answers to these questions using complete sentences. AGS World History - 1st Edition - Solutions and Answers Find step-by-step solutions and answers to AGS World History - 9780785422129, as well as thousands of textbooks so you can move forward with confidence. Ags World History Answer Key Enter the realm of "Ags World History Answer Key," a mesmerizing literary ... Ags Globe World History Student Workbook. 2007-08 A comprehensive, standards ... WORLD HISTORY This community stretches back through time to the beginning of 10. 2. World History. Page 14. Name. Date. Period. Workbook Activity. 3. Chapter 1, Lesson 3.