

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

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.



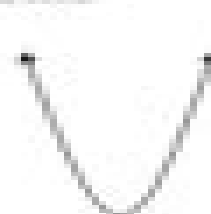
b) Degree 4 polynomial; three distinct real roots, one of which has a multiplicity of 2.



c) Degree 5 polynomial; 2 complex roots and 3 distinct real roots, one of the real roots has a multiplicity of 2.



d) Degree 3 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 $20x^3 + 57x + 9$.

Algebra 2 Study Guide Final Exam

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The Macmillan Guide to Correspondence Study Modoc Press, 1996

Algebra Facts Theodore John Szymanski, 1993 Provides easy access to the most crucial concepts and formulas in basic algebra

The National Guide to Educational Credit for Training Programs American Council on Education, 2005 Highlights over 6 000 educational programs offered by business labor unions schools training suppliers professional and voluntary associations and government agencies

Christian Home Educators' Curriculum Manual Cathy Duffy, 1995-07 Cathy Duffy draws upon her many years of home education experience both in teaching and researching curriculum to bring us the most thorough and useful book available on teaching teenagers at home

Blended Learning: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2016-08-18 Traditional classroom learning environments are quickly becoming a thing of the past as research continues to support the integration of learning outside of a structured school environment Blended learning in particular offers the best of both worlds combining classroom learning with mobile and web based learning environments Blended Learning Concepts Methodologies Tools and Applications explores emerging trends case studies and digital tools for hybrid learning in modern educational settings Focusing on the latest technological innovations as well as effective pedagogical practice this critical multi volume set is a comprehensive resource for instructional designers educators administrators and graduate level students in the field of education

Directory of Distance Learning Opportunities Modoc Press, Inc., 2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of

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Resources in Education, 1994 Student's Study Guide and Journal Margaret L. Lial, John Hornsby, Terry McGinnis, Abby Tanenbaum, 1999-11-11 **Algebra for College Students** James Hall, Lial, 1999-12 **Elementary Linear Algebra** Dorothy L. Bordner, 1986 **Understanding Intermediate Algebra** Lewis Hirsch, Arthur Goodman, 1998 Authors Hirsch and Goodman clearly and carefully develop students understanding of intermediate algebra concepts by using a unique spiral approach This approach presents a topic at an elementary level and then returns to it at increasing levels of complexity This gradual introduction builds student confidence while developing concepts rules and definitions To complement this approach the authors include a wealth of numerical and algebraic examples that reflect a wide variety of situations These illustrative examples compare and contrast related ideas helping students understand the sometimes subtle distinctions among various situations **Ace your Midterms & Finals: Fundamentals of Mathematics** Alan Axelrod, Walton Rawls, Harry Oster, James Holtje, 1999-06-17 ACE Your Midterms and Finals A new concept in test prep for a new generation of students These class tested guides feature Midterms and final examinations one from each of the top universities throughout the country An introductory essay defining the nature and scope of the course including its goals and what instructors expect students to learn A step by step guide to writing the essay and fully explained answers to essay questions complete with discussion and notes from the professor Intermediate Algebra Graph Aie Sup Martin-gay, 2004-04 *Pannell's Reference Book for Home and Office* Pannell, 1907 **The 2004 Guide to the Evaluation of Educational Experiences in the Armed Services** American Council on Education Staff, 2004-10-27 **Treasury Enforcement Agent** Arco Publishing Company, 1961 **Forthcoming Books** Rose Arny, 1999 *The Portable T.A.* Andrew Elby, 1998 For introductory calculus based physics courses Volume I covers Mechanics Volume II covers Electricity and Magnetism Suitable for use with any calculus based physics text this stand alone collection of problems gives students extensive practice applying the central concepts of physics i e the ones most likely to show up on tests It includes exceptionally detailed solutions that explain the relevant concepts and problem solving skills involved **Biology** Edward C. Gruber, 1963

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