

$$b^2 - 4(ac)$$

# Understanding the Discriminant

Find the value of the discriminant of each quadratic equation.

1)  $6p^2 - 2p - 3 = 0$

$$4 - 4(-18)$$

$$4 + 72 = \boxed{76}$$

2)  $-2x^2 - x - 1 = 0$

$$1 - 4(2)$$

$$1 - 8 = \boxed{-7}$$

3)  $-4m^2 - 4m + 5 = 0$

$$16 - 4(-20)$$

$$16 + 80 = \boxed{96}$$

4)  $5b^2 + b - 2 = 0$

$$1 - 4(-10)$$

$$1 + 40 = \boxed{41}$$

5)  $r^2 + 5r + 2 = 0$

$$25 - 4(2)$$

$$25 - 8 = \boxed{17}$$

6)  $2p^2 + 5p - 4 = 0$

$$25 - 4(-8)$$

$$25 + 32 = \boxed{57}$$

Find the discriminant of each quadratic equation then state the number of real and imaginary solutions.

7)  $9n^2 - 3n - 8 = -10$

$$9n^2 - 3n + 12 = 0$$

$$b^2 - 4ac$$

$$9 - 4(12)$$

$$9 - 48 = -39$$

$$-39 < 0$$

$$b^2 - 4ac$$

$$9 - 48 = -39$$

$$-39 < 0$$

$$9n^2 - 3n + 12 = 0$$

$$b^2 - 4ac$$

$$9 - 4(12) = -39 < 0$$

8)  $-2x^2 - 8x - 14 = -6$

$$-2x^2 - 8x - 8 = 0$$

$$b^2 - 4ac$$

$$64 - 4(8)$$

$$64 - 32 = 32$$

$$32 > 0$$

$$-2x^2 - 8x - 8 = 0$$

$$b^2 - 4ac$$

$$64 - 4(8) = 32 > 0$$

$$32 > 0$$

$$-2x^2 - 8x - 8 = 0$$

$$b^2 - 4ac$$

$$64 - 4(8) = 32 > 0$$

# Algebra 2 Connections Answers

**Margaret L. Lial**



## **Algebra 2 Connections Answers:**

PISA Learning Mathematics for Life A Perspective from PISA OECD,2010-03-04 Learning Mathematics for Life examines the link between the PISA test requirements and student performance It focuses specifically on the proportions of students who answer questions correctly across a range of difficulty The questions are classified by content competencies context and format

**TAG - Math is it! Grades 3 - 5** Regina Harwood Gresham,Douglas K. Brumbaugh,Enrique Ortiz,2008-10-02 Mathematics can be fun and exciting if we as teachers make it exciting and fun for our students Our goal as authors of this book is to help you find creative ways to bring enjoyable mathematics material into your classroom TAG Tricks Activities and Games are ideas that we have implemented in our own teaching to help students explore discover conjecture investigate verify explain and understand mathematics in a creative and motivating way It is important to arouse each student s curiosity by presenting mathematics in fresh and stimulating ways that are captivating and motivating The ideas presented in this book are designed to help students become powerful mathematics thinkers and to help them make sense out of mathematics Based on the NCTM Standards and NCTM s new Focal Points we have emphasized Number and Operations Algebra Geometry Measurement and Data Analysis and Probability We have provided objectives materials procedures and solutions to the entries

**Course 1 Applications and Connections** Glencoe/McGraw-Hill,1998-02 *Mathematics Connections* Robert B. Ashlock,1992

*Algebra 2* Margaret L. Lial,John Hornsby,Terry McGinnis,2005-08

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Chapter 9 Making Proficient Students a Priority Michael Roberts      **TExES Mathematics 7-12 (235) Book + Online** Mel Friedman, 2020-08-12 TExES Mathematics 7 12 235 Test Prep with Online Practice Tests Completely Aligned with Today's Exam REA's TExES Mathematics 7 12 235 test prep is perfect for teacher education students and career changing professionals seeking certification as secondary mathematics teachers in Texas. Finely tuned to help you succeed by a Texas-based math education expert, this Book Online prep package is fully aligned with the current test framework. Our comprehensive review guides prospective secondary math teachers through all the domains and competencies tested on the TExES 7 12 exam, including Number concepts, Patterns and algebra, Geometry and measurement, Probability and statistics, Mathematical processes and perspectives, Mathematical learning, instruction and assessment. The book is rich with examples and exercises that reinforce the concepts covered in each chapter. Two full-length practice tests, both in the book and online, offer realistic practice and are balanced to include every type of question and skill tested on the exam. Go online with us to get your practice delivered in a timed format with automatic scoring and diagnostic feedback to help you zero in on the topics and types of questions that give you trouble now, so you can succeed on test day. This test prep is a must-have for anyone who wants to become a Texas secondary math teacher.      *El-Hi Textbooks & Serials in Print*, 2005, 2005

**Algebra 2 Real World Application Transparencies and Masters** McGraw-Hill Staff, 2002-06      *Houghton Mifflin Mathematics*, 2003-08-15      **Beginning Algebra** Margaret L. Lial, 1996      *Project Earth Science* Alfredo L. Aretxabaleta, Gregg R. Brooks, Nancy W. West, 2011 How well can your students Explain why ice floats? Model ocean currents. Predict tides. Describe the proper clean up of an oil spill. Project Earth Science Physical Oceanography Revised 2nd Edition immerses students in activities that focus on water, the substance that covers nearly three quarters of Earth's surface. Eighteen ready-to-use teacher-tested classroom activities and supplemental readings offer explorations and straightforward explanations to foster intuitive understanding of key science concepts. Students cover topics such as the structure of water molecules, saltwater and fresh water.      **El-Hi Textbooks and Serials in Print**, 2006      **The Cyclopædia of Education** Henry Kiddle, Alexander Jacob Schem, 1876      **Resources in Education**, 1992-04      *Scientific American*, 1873 Monthly magazine devoted to topics of general scientific interest      **Math Advantage** Grace M. Burton, 1999      *Interdisciplinary Mathematics: Topics in physical geometry* Robert Hermann, 1973      *Intermediate Algebra with Applications and Visualization* Gary K. Rockswold, Terry A. Krieger, 2009 **KEY MESSAGE** Gary Rockswold and Terry Krieger focus on teaching algebra in context, giving readers realistic and convincing answers to the perennial question: When will I ever use this? The authors' consistent use of real data, graphs and tables throughout the examples and exercise sets gives meaning to the numbers and equations as readers encounter them. This new edition further enhances Rockswold and Krieger's focus on math in the real world with new features and updated applications to engage today's readers. **KEY TOPICS** Real Numbers and Algebra, Linear Functions and Models, Linear Equations and Inequalities, Systems of Linear Equations, Polynomial Expressions

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