

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

# 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 Unit 03 Lesson 01 Problem Solving Worksheet

**H Kauffman**



## **Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet:**

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## **Table of Contents Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet**

1. Understanding the eBook Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet
  - The Rise of Digital Reading Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet
  - Advantages of eBooks Over Traditional Books
2. Identifying Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet
  - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet
  - Personalized Recommendations
  - Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet User Reviews and Ratings
  - Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet and Bestseller Lists

5. Accessing Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet Free and Paid eBooks
  - Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet Public Domain eBooks
  - Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet eBook Subscription Services
  - Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet Budget-Friendly Options
6. Navigating Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet eBook Formats
  - ePub, PDF, MOBI, and More
  - Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet Compatibility with Devices
  - Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet
  - Highlighting and Note-Taking Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet
  - Interactive Elements Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet
8. Staying Engaged with Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet
9. Balancing eBooks and Physical Books Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet
  - Setting Reading Goals Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet
  - Fact-Checking eBook Content of Algebra 2 Unit 03 Lesson 01 Problem Solving Worksheet
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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