

4-3 Study Guide and Intervention

Solving Quadratic Equations by Factoring

Factored Form To write a quadratic equation with roots p and q , let $(x - p)(x - q) = 0$. Then multiply using FOIL.

Example: Write a quadratic equation in standard form with the given roots.

a. 3, -5

$$(x - p)(x - q) = 0 \quad \text{Write the pattern.}$$

$$(x - 3)(x - (-5)) = 0 \quad \text{Replace } p \text{ with 3, } q \text{ with } -5.$$

$$(x - 3)(x + 5) = 0 \quad \text{Simplify.}$$

$$x^2 + 2x - 15 = 0 \quad \text{Use FOIL.}$$

The equation $x^2 + 2x - 15 = 0$ has roots 3 and -5.

b. $-\frac{7}{8}$, $-\frac{1}{3}$

$$(x - p)(x - q) = 0$$

$$\left[x - \left(-\frac{7}{8}\right)\right]\left(x - \frac{1}{3}\right) = 0$$

$$\left(x + \frac{7}{8}\right)\left(x - \frac{1}{3}\right) = 0$$

$$\frac{(8x + 7)}{8} \cdot \frac{(3x - 1)}{3} = 0$$

$$\frac{24 - (8x + 7)(3x - 1)}{24} = 24 \cdot 0$$

$$24x^2 + 13x - 7 = 0$$

The equation $24x^2 + 13x - 7 = 0$ has roots $-\frac{7}{8}$ and $\frac{1}{3}$.

Exercises

Write a quadratic equation in standard form with the given root(s).

1. 3, -4

2. -8, -2

3. 1, 9

4. -5

5. 10, 7

6. -2, 15

7. $-\frac{1}{2}$, 5

8. 2, $\frac{2}{3}$

9. -7, $\frac{3}{4}$

10. 3, $\frac{2}{5}$

11. $-\frac{4}{9}$, -1

12. 9, $\frac{1}{6}$

13. $\frac{2}{3}$, $-\frac{2}{3}$

14. $\frac{5}{4}$, $-\frac{1}{2}$

15. $\frac{3}{2}$, $\frac{1}{5}$

16. $-\frac{7}{8}$, $\frac{7}{2}$

17. $\frac{1}{2}$, $\frac{3}{4}$

18. $\frac{1}{8}$, $\frac{1}{6}$

Factoring Quadratic Equations Study Guide

J Rink



Factoring Quadratic Equations Study Guide:

Factoring Quadratic Equations Study Guide Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Factoring Quadratic Equations Study Guide**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Factoring Quadratic Equations Study Guide

1. Understanding the eBook Factoring Quadratic Equations Study Guide
 - The Rise of Digital Reading Factoring Quadratic Equations Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Factoring Quadratic Equations Study Guide
 - 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 Factoring Quadratic Equations Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Factoring Quadratic Equations Study Guide
 - Personalized Recommendations
 - Factoring Quadratic Equations Study Guide User Reviews and Ratings

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