

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

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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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