

8-5 Study Guide and Intervention

Factoring Quadratic Trinomials

Factor $x^2 + bx + c$ by finding two numbers that multiply to c and add to b . Use the distributive property to factor the trinomial.

Factoring $x^2 + bx + c$ $x^2 + bx + c$ is a sum of a square with constant c and coefficient b .

Example 1: Factor $x^2 + 5x + 6$.

Let $x^2 + 5x + 6 = 0$.

Find two numbers that multiply to 6.

Product	Sum
$1 \cdot 6$	7
$2 \cdot 3$	5

Since $2 \cdot 3 = 6$ and $2 + 3 = 5$, the two numbers are 2 and 3.

$x^2 + 5x + 6 = (x + 2)(x + 3)$

So, $x^2 + 5x + 6 = 0$.

Write the equation $(x + 2)(x + 3) = 0$. Notice that each binomial factor contains a positive or negative constant term.

Since $(x + 2)(x + 3) = 0$, either $x + 2 = 0$ or $x + 3 = 0$.

$x^2 + 5x + 6 = 0$ $x = -2$ or $x = -3$

Solution:

Factor each polynomial.

- 1. $x^2 + 10x + 16$
(x + 2)(x + 8)
- 2. $x^2 + 12x + 20$
(x + 2)(x + 10)
- 3. $x^2 + 14x + 48$
(x + 6)(x + 8)
- 4. $x^2 + 15x + 54$
(x + 6)(x + 9)
- 5. $x^2 + 16x + 63$
(x + 7)(x + 9)
- 6. $x^2 + 17x + 72$
(x + 8)(x + 9)
- 7. $x^2 + 18x + 80$
(x + 5)(x + 16)
- 8. $x^2 + 19x + 90$
(x + 6)(x + 15)

- 9. $x^2 + 20x + 100$
(x + 10)(x + 10)
- 10. $x^2 + 21x + 110$
(x + 10)(x + 11)
- 11. $x^2 + 22x + 120$
(x + 10)(x + 12)
- 12. $x^2 + 23x + 132$
(x + 11)(x + 12)
- 13. $x^2 + 24x + 144$
(x + 12)(x + 12)
- 14. $x^2 + 25x + 156$
(x + 12)(x + 13)
- 15. $x^2 + 26x + 168$
(x + 12)(x + 14)
- 16. $x^2 + 27x + 180$
(x + 12)(x + 15)
- 17. $x^2 + 28x + 196$
(x + 14)(x + 14)

Example 2: Factor $x^2 - 4x - 12$.

Let $x^2 - 4x - 12 = 0$. The two numbers that multiply to -12 and add to -4 are -6 and 2 . Write the trinomial as the product of two binomials with constant terms that multiply to -12 .

Product	Sum
$1 \cdot -12$	-11
$-1 \cdot 12$	11
$2 \cdot -6$	-4
$-2 \cdot 6$	4

Since $2 \cdot -6 = -12$ and $2 + (-6) = -4$,

$x^2 - 4x - 12 = (x + 2)(x - 6)$

- 18. $x^2 + 29x + 140$
(x + 5)(x + 28)
- 19. $x^2 + 30x + 144$
(x + 12)(x + 24)
- 20. $x^2 + 31x + 150$
(x + 10)(x + 21)
- 21. $x^2 + 32x + 160$
(x + 10)(x + 22)
- 22. $x^2 + 33x + 168$
(x + 12)(x + 24)
- 23. $x^2 + 34x + 176$
(x + 16)(x + 22)
- 24. $x^2 + 35x + 180$
(x + 12)(x + 24)
- 25. $x^2 + 36x + 188$
(x + 14)(x + 26)
- 26. $x^2 + 37x + 196$
(x + 14)(x + 28)

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Table of Contents 6 Study Guide And Intervention Answers

1. Understanding the eBook 6 Study Guide And Intervention Answers
 - The Rise of Digital Reading 6 Study Guide And Intervention Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying 6 Study Guide And Intervention Answers
 - 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 6 Study Guide And Intervention Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from 6 Study Guide And Intervention Answers
 - Personalized Recommendations
 - 6 Study Guide And Intervention Answers User Reviews and Ratings

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