

9-4

Study Guide and Intervention

Factoring Trinomials: $ax^2 + bx + c$

Factor $ax^2 + bx + c$ To factor a trinomial of the form $ax^2 + bx + c$, find two integers, m and n whose product is equal to ac and whose sum is equal to b . If there are no integers that satisfy these requirements, the polynomial is called a **prime polynomial**.

EXAMPLE 1Factor $2x^2 + 15x + 18$.

In this example, $a = 2$, $b = 15$, and $c = 18$. You need to find two numbers whose sum is 15 and whose product is $2 \cdot 18$ or 36. Make a list of the factors of 36 and look for the pair of factors whose sum is 15.

Factors of 36	Sum of Factors
1, 36	37
2, 18	20
3, 12	15

Use the pattern $ax^2 + mx + nx + c$, with $a = 2$, $m = 3$, $n = 12$, and $c = 18$.

$$\begin{aligned} 2x^2 + 15x + 18 &= 2x^2 + 3x + 12x + 18 \\ &= (2x^2 + 3x) + (12x + 18) \\ &= x(2x + 3) + 6(2x + 3) \\ &= (x + 6)(2x + 3) \end{aligned}$$

Therefore, $2x^2 + 15x + 18 = (x + 6)(2x + 3)$.

EXAMPLE 2Factor $3x^2 - 3x - 18$.

Note that the GCF of the terms $3x^2$, $3x$, and 18 is 3. First factor out this GCF.

$$3x^2 - 3x - 18 = 3(x^2 - x - 6)$$

Now factor $x^2 - x - 6$. Since $a = 1$, find the two factors of -6 whose sum is -1 .

Factors of -6	Sum of Factors
1, -6	-5
-1, 6	5
-2, 3	1
2, -3	-1

Now use the pattern $(x + m)(x + n)$ with $m = 2$ and $n = -3$.

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

The complete factorization is $3x^2 - 3x - 18 = 3(x + 2)(x - 3)$.

Check Your Progress

Factor each trinomial, if possible. If the trinomial cannot be factored using integers, write *prime*.

1. $2x^2 - 3x - 2$
 $(2x + 1)(x - 2)$

2. $3m^2 - 6m - 3$
 $(3m + 1)(m - 3)$

3. $16r^2 - 8r + 1$
 $(4r - 1)(4r - 1)$

4. $4x^2 + 5x - 6$
 $(2x + 3)(3x - 2)$

5. $3x^2 + 2x - 8$
 $(3x - 4)(x + 2)$

6. $18x^2 - 23x - 5$
 $(3x - 5)(6x + 1)$

7. $3a^2 + 5a + 2$
 $(2a + 3)(a + 1)$

8. $18y^2 + 9y - 5$
 $(6y + 5)(3y - 1)$

9. $-4c^2 + 19c - 21$
 $(4c - 7)(3 - c)$

10. $8x^2 - 4x - 24$
 $(4x - 8)(2x + 3)$

11. $28p^2 + 60p - 25$
 $(2p + 5)(14p - 5)$

12. $48x^2 + 22x - 15$
 $(6x + 5)(8x - 3)$

13. $3y^2 - 6y - 24$
 $3(y + 2)(y - 4)$

14. $4x^2 + 36x - 48$
 $2(x + 8)(2x - 3)$

15. $8m^2 - 44m + 48$
 $4(2m - 3)(m - 4)$

16. $4x^2 - 7x + 18$
prime

17. $2a^2 - 14a + 18$
 $2(a^2 - 7a + 9)$

18. $18 + 11y + 2y^2$
prime

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Table of Contents Glencoe Answer Key Algebra 1

1. Understanding the eBook Glencoe Answer Key Algebra 1
 - The Rise of Digital Reading Glencoe Answer Key Algebra 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Glencoe Answer Key Algebra 1
 - 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 Glencoe Answer Key Algebra 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Glencoe Answer Key Algebra 1
 - Personalized Recommendations
 - Glencoe Answer Key Algebra 1 User Reviews and Ratings
 - Glencoe Answer Key Algebra 1 and Bestseller Lists

5. Accessing Glencoe Answer Key Algebra 1 Free and Paid eBooks
 - Glencoe Answer Key Algebra 1 Public Domain eBooks
 - Glencoe Answer Key Algebra 1 eBook Subscription Services
 - Glencoe Answer Key Algebra 1 Budget-Friendly Options
6. Navigating Glencoe Answer Key Algebra 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Glencoe Answer Key Algebra 1 Compatibility with Devices
 - Glencoe Answer Key Algebra 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Glencoe Answer Key Algebra 1
 - Highlighting and Note-Taking Glencoe Answer Key Algebra 1
 - Interactive Elements Glencoe Answer Key Algebra 1
8. Staying Engaged with Glencoe Answer Key Algebra 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Glencoe Answer Key Algebra 1
9. Balancing eBooks and Physical Books Glencoe Answer Key Algebra 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Glencoe Answer Key Algebra 1
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Glencoe Answer Key Algebra 1
 - Setting Reading Goals Glencoe Answer Key Algebra 1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Glencoe Answer Key Algebra 1
 - Fact-Checking eBook Content of Glencoe Answer Key Algebra 1
 - 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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