

9.2 Factor Trinomials

PRACTICE

Check the work! Multiply out the factored form to see if it matches the polynomial.

1. Is $(x + 6)(x - 5)$ the factored form of $x^2 - 3x - 30$?

$$x^2 - 5x + 6x - 30$$

$$x^2 + 1x - 30$$

NO

2. Is $(x + 4)(x - 7)$ the factored form of $x^2 - 3x - 28$?

$$x^2 - 7x + 4x - 28$$

$$x^2 - 3x - 28$$

YES

3. Is $(x - 4)(x + 3)$ the factored form of $x^2 - x - 12$?

$$x^2 + 3x - 4x - 12$$

$$x^2 - 1x - 12$$

YES

4. Is $m(m - 3)$ the factored form of $m^2 - 3$?

$$m^2 - 3m$$

NO

5. Is $(d - 7)(d - 5)$ the factored form of $d^2 - 12d + 35$?

$$d^2 - 5d - 7d + 35$$

$$d^2 - 12d + 35$$

NO

6. Is $(t + 3)(t - 3)$ the factored form of $t^2 - 9$?

$$t^2 - 3t + 3t - 9$$

$$t^2 - 9$$

YES

Factor the following if possible. Check your answer by multiplying!

7. $x^2 - 2x - 48$

$$(x - 8)(x + 6)$$

~~2~~
-2
-48
+6

CHECK:

$$(x - 8)(x + 6)$$

$$x^2 + 6x - 8x - 48$$

$$x^2 - 2x - 48 \checkmark$$

8. $x^2 + 14x + 24$

$$(x + 12)(x + 2)$$

~~12~~
+2
+24
+12

CHECK: $(x + 12)(x + 2)$

$$x^2 + 2x + 12x + 24$$

$$x^2 + 14x + 24 \checkmark$$

9. $m^2 - 10m + 16$

$$(m - 8)(m - 2)$$

~~-8~~
-2
+16
-2

CHECK: $(m - 8)(m - 2)$

$$m^2 - 8m - 2m + 16$$

$$m^2 - 10m + 16 \checkmark$$

10. $p^2 - 4p - 5$

$$(p - 5)(p + 1)$$

~~-5~~
+1
-5
+1

CHECK: $(p - 5)(p + 1)$

$$p^2 + p - 5p - 5$$

$$p^2 - 4p - 5 \checkmark$$

11. $x^2 - 64$

$$(x + 8)(x - 8)$$

Difference of Squares!

CHECK: $(x + 8)(x - 8)$

$$x^2 - 8x + 8x - 64$$

$$x^2 - 64 \checkmark$$

12. $h^2 + 3h - 54$

$$(h + 9)(h - 6)$$

~~9~~
-6
-54
+9

CHECK: $(h + 9)(h - 6)$

$$h^2 - 6h + 9h - 54$$

$$h^2 + 3h - 54 \checkmark$$

13. $x^2 - 8x$

Greatest

14. $x^2 + 2x + 12$

15. $x^2 - 49$

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Terry C. Jones



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Table of Contents Factoring Unit 05 Lesson 01

1. Understanding the eBook Factoring Unit 05 Lesson 01
 - The Rise of Digital Reading Factoring Unit 05 Lesson 01
 - Advantages of eBooks Over Traditional Books
2. Identifying Factoring Unit 05 Lesson 01
 - 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 Unit 05 Lesson 01
 - User-Friendly Interface
4. Exploring eBook Recommendations from Factoring Unit 05 Lesson 01
 - Personalized Recommendations

- Factoring Unit 05 Lesson 01 User Reviews and Ratings
- Factoring Unit 05 Lesson 01 and Bestseller Lists
- 5. Accessing Factoring Unit 05 Lesson 01 Free and Paid eBooks
 - Factoring Unit 05 Lesson 01 Public Domain eBooks
 - Factoring Unit 05 Lesson 01 eBook Subscription Services
 - Factoring Unit 05 Lesson 01 Budget-Friendly Options
- 6. Navigating Factoring Unit 05 Lesson 01 eBook Formats
 - ePub, PDF, MOBI, and More
 - Factoring Unit 05 Lesson 01 Compatibility with Devices
 - Factoring Unit 05 Lesson 01 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Factoring Unit 05 Lesson 01
 - Highlighting and Note-Taking Factoring Unit 05 Lesson 01
 - Interactive Elements Factoring Unit 05 Lesson 01
- 8. Staying Engaged with Factoring Unit 05 Lesson 01
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Factoring Unit 05 Lesson 01
- 9. Balancing eBooks and Physical Books Factoring Unit 05 Lesson 01
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Factoring Unit 05 Lesson 01
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Factoring Unit 05 Lesson 01
 - Setting Reading Goals Factoring Unit 05 Lesson 01
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Factoring Unit 05 Lesson 01
 - Fact-Checking eBook Content of Factoring Unit 05 Lesson 01

- 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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