

Name: _____

Unit 7: Polynomials & Factoring

Date: _____

Bell: _____

Homework 3: Multiplying Binomials & Trinomials

Directions: Simplify the following polynomials. Answers must be in standard form.

1. $(x + 2)(x + 7)$

$$x^2 + 2x + 7x + 14$$

2. $(x + 8)(x + 3)$

$$x^2 + 8x + 3x + 24$$
$$x^2 + 11x + 24$$

3. $(b + 4)(b - 2)$

$$b^2 + 2b - 4b - 8$$

4. $(w - 7)(w + 3)$

$$w^2 - 7w + 3w - 21$$
$$w^2 - 4w - 21$$

5. $(m - 5)(m - 2)$

$$m^2 - 5m - 2m + 10$$
$$m^2 - 7m + 10$$

6. $(y - 1)(y - 3)$

$$y^2 - 3y - 1y + 3$$
$$y^2 - 4y + 3$$

7. $(2x + 3)(x + 1)$

$$2x^2 + 3x + 2x + 3$$
$$2x^2 + 5x + 3$$

8. $(k + 4)(3k + 2)$

$$k^2 + 8k + 8$$
$$3k^2 + 14k + 8$$

9. $(4m + n)(m - 2n)$

$$4m^2 + 3mn - 2n^2 - 2n^2$$
$$4m^2 - 2mn - 2n^2$$

10. $(w + 6)(3w - 4)$

$$w^2 - 3w^2 + 18w - 24$$
$$3w^2 + 14w - 24$$

11. $(5x + 3)(x - 2)$

$$5x^2 + 3x - 10x - 6$$
$$5x^2 - 7x - 6$$

12. $(2a - 4b)(7a - 2b)$

$$14a^2 - 4ab - 28ab + 8b^2$$
$$14a^2 - 32ab + 8b^2$$

13. $(x + 4)^2$

$$x^2 + 8x + 16$$

14. $(a - 3)^2$

15. $(4m + 1)^2$

$$16m^2 + 8m + 1$$

16. $(x + 1)(x - 1)$

17. $(y - 8)(y + 8)$

$$y^2 - 64$$

18. $(2w + 1)(2w - 1)$

19. $(3a + 4b)(3a - 4b)$

$$9a^2 - 16b^2$$

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

$$x^3 + 9x^2 + 17x - 40$$

21. $(m + 3)(m^2 + 4m + 7)$

$$m^3 + 7m^2 + 19m + 21$$

22. $(4x - 1)(x^2 - 7x + 1)$

23. $(2h + 3)(2h^2 + 3h + 4)$

$$4h^3 + 17h^2 + 17h + 12$$

24. $(3x + 2)(5x^2 - 12x - 2)$

25. Write an expression to represent the area of the shaded region in simplest form.

$5x + 2$



$3x - 1$

$$14x^2 - 6x - 2$$

Factoring Polynomials Gina Wilson 2012

Katrin Zwirgmaier



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Table of Contents Factoring Polynomials Gina Wilson 2012

1. Understanding the eBook Factoring Polynomials Gina Wilson 2012
 - The Rise of Digital Reading Factoring Polynomials Gina Wilson 2012
 - Advantages of eBooks Over Traditional Books
2. Identifying Factoring Polynomials Gina Wilson 2012
 - 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 Polynomials Gina Wilson 2012
 - User-Friendly Interface
4. Exploring eBook Recommendations from Factoring Polynomials Gina Wilson 2012

- Personalized Recommendations
 - Factoring Polynomials Gina Wilson 2012 User Reviews and Ratings
 - Factoring Polynomials Gina Wilson 2012 and Bestseller Lists
5. Accessing Factoring Polynomials Gina Wilson 2012 Free and Paid eBooks
 - Factoring Polynomials Gina Wilson 2012 Public Domain eBooks
 - Factoring Polynomials Gina Wilson 2012 eBook Subscription Services
 - Factoring Polynomials Gina Wilson 2012 Budget-Friendly Options
 6. Navigating Factoring Polynomials Gina Wilson 2012 eBook Formats
 - ePub, PDF, MOBI, and More
 - Factoring Polynomials Gina Wilson 2012 Compatibility with Devices
 - Factoring Polynomials Gina Wilson 2012 Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Factoring Polynomials Gina Wilson 2012
 - Highlighting and Note-Taking Factoring Polynomials Gina Wilson 2012
 - Interactive Elements Factoring Polynomials Gina Wilson 2012
 8. Staying Engaged with Factoring Polynomials Gina Wilson 2012
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Factoring Polynomials Gina Wilson 2012
 9. Balancing eBooks and Physical Books Factoring Polynomials Gina Wilson 2012
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Factoring Polynomials Gina Wilson 2012
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Factoring Polynomials Gina Wilson 2012
 - Setting Reading Goals Factoring Polynomials Gina Wilson 2012
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Factoring Polynomials Gina Wilson 2012

-
- Fact-Checking eBook Content of Factoring Polynomials Gina Wilson 2012
 - 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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web jul 1 2017 in this gearbox design mild steel was selected for the material of the gear wheels and shafts once the gear dimensions were finalized the design of the shafts was initiated the

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web gear design process light weight construction and consideration of available resources result in gearbox designs with high load capacity and power density at the same time expectations for gear reliability are high additionally there is a diversity of planetary gears for different applications