

Adding and Subtracting Polynomials

ADDITION:

To add polynomials we must arrange the terms of the polynomials so that the like terms can be added together or combined. A vertical or horizontal format can be used. Most students find the vertical format easier to understand.

EXAMPLE:
$$(4x^2 + 7x - 8) + (-9x^2 - 3x + 10)$$

In this example the parentheses are there to help you tell one polynomial from the other. Because the operation is addition, removing the parentheses will not change any of the values. We will now rewrite the polynomials in a vertical format being sure to write the like terms underneath each other.

REMEMBER that the sign in front of each term goes with it!
REMEMBER that like terms must have identical variable parts.

$$(4x^2 + 7x - 8) + (-9x^2 - 3x + 10)$$

$$4x^2 + 7x - 8$$

$$-9x^2 - 3x + 10$$

$$-5x^2 + 4x + 2$$
Now add the numerical coefficients and keep the same variable part.

EXAMPLE:
$$(3y^3 + 4y + 14) + (-4y^2 + 21)$$

If you look carefully at this problem you will see that the constant terms are the only ones which can be combined.

$$\begin{array}{r}
 3y^3 & + 4y + 14 \\
 - 4y^2 & + 21 \\
 3y^3 - 4y^2 + 4y + 35
 \end{array}$$

Now add the numerical coefficients.

You may find it easier to put in a zero as a place holder.

$$3y^3 + 0y^2 + 4y + 14$$

$$0y^3 - 4y^2 + 0y + 21$$

$$3y^3 - 4y^2 + 4y + 35$$

This instructional aid was prepared by the Tallahassee Community College Learning Commons.

Polynomial Adding And Subtracting Answers Pg 23 Algebra If876

Leon J. Ablon

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Table of Contents Polynomial Adding And Subtracting Answers Pg 23 Algebra If876

- 1. Understanding the eBook Polynomial Adding And Subtracting Answers Pg 23 Algebra If876
 - o The Rise of Digital Reading Polynomial Adding And Subtracting Answers Pg 23 Algebra If876
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Polynomial Adding And Subtracting Answers Pg 23 Algebra If876
 - 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 Polynomial Adding And Subtracting Answers Pg 23 Algebra If876
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Polynomial Adding And Subtracting Answers Pg 23 Algebra If876
 - Personalized Recommendations
 - Polynomial Adding And Subtracting Answers Pg 23 Algebra If876 User Reviews and Ratings
 - Polynomial Adding And Subtracting Answers Pg 23 Algebra If876 and Bestseller Lists

- 5. Accessing Polynomial Adding And Subtracting Answers Pg 23 Algebra If876 Free and Paid eBooks
 - o Polynomial Adding And Subtracting Answers Pg 23 Algebra If876 Public Domain eBooks
 - o Polynomial Adding And Subtracting Answers Pg 23 Algebra If876 eBook Subscription Services
 - Polynomial Adding And Subtracting Answers Pg 23 Algebra If876 Budget-Friendly Options
- 6. Navigating Polynomial Adding And Subtracting Answers Pg 23 Algebra If876 eBook Formats
 - o ePub, PDF, MOBI, and More
 - Polynomial Adding And Subtracting Answers Pg 23 Algebra If876 Compatibility with Devices
 - Polynomial Adding And Subtracting Answers Pg 23 Algebra If876 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Polynomial Adding And Subtracting Answers Pg 23 Algebra If876
 - Highlighting and Note-Taking Polynomial Adding And Subtracting Answers Pg 23 Algebra If876
 - Interactive Elements Polynomial Adding And Subtracting Answers Pg 23 Algebra If876
- 8. Staying Engaged with Polynomial Adding And Subtracting Answers Pg 23 Algebra If876
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Polynomial Adding And Subtracting Answers Pg 23 Algebra If876
- 9. Balancing eBooks and Physical Books Polynomial Adding And Subtracting Answers Pg 23 Algebra If876
 - ∘ Benefits of a Digital Library
 - $\circ\,$ Creating a Diverse Reading Collection Polynomial Adding And Subtracting Answers Pg 23 Algebra If876
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Polynomial Adding And Subtracting Answers Pg 23 Algebra If876
 - Setting Reading Goals Polynomial Adding And Subtracting Answers Pg 23 Algebra If876
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Polynomial Adding And Subtracting Answers Pg 23 Algebra If876
 - Fact-Checking eBook Content of Polynomial Adding And Subtracting Answers Pg 23 Algebra If876
 - 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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