

## 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.

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

$$\begin{array}{r} 4x^2 + 7x - 8 \\ -9x^2 - 3x + 10 \\ \hline -5x^2 + 4x + 2 \end{array}$$

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.

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

Now add the numerical coefficients.

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

$$\begin{array}{r} 3y^3 + 0y^2 + 4y + 14 \\ 0y^3 - 4y^2 + 0y + 21 \\ \hline 3y^3 - 4y^2 + 4y + 35 \end{array}$$

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

# Polynomial Adding And Subtracting Answers Pg 23

## Algebra If876

**Leon J. Ablon**



## **Polynomial Adding And Subtracting Answers Pg 23 Algebra If876:**

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In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Polynomial Adding And Subtracting Answers Pg 23 Algebra If876**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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