Bellwork

1. How do you think you did on your test?

2. Can you make up the test?

3. What is a like term?

Like Terms

Definition:

Any terms that have the EXACT same variable!

Variables must have the same exponent!

Combining Like Terms:

Add/Subtract the coefficients of the terms.

Adding Polynomials

Procedure:

1. Drop the ( )

2. Underline the like terms in a different fashion.

3. Combine the coefficients of the like terms.

4. Write the polynomial in standard form. (The term with the highest exponent to the term with the lowest/no exponent.)

Examples

1. $(-2x^3 + x^2 + 17) + (2x^2 - 3x - 9)$

2. $(-2x^4 + x^3 + 3x - 2) + (-2x^3 + 4x^4 - 6x + 1)$

Bellwork

Add the following polynomials:

1. $(3x^2 - 4x + 1) + (-9 - 2x^2 + x)$

2. $(-7x^3 + 2x - 9x^2) + (2x - 3x^4 + x^2 + 6x^3)$

Subtracting Polynomials

Procedure:

1. Drop the ( ), and change all signs of the polynomial behind the - sign.

2. Underline the like terms in a different fashion.

3. Combine the coefficients of the like terms.

4. Write the polynomial in standard form. (The term with the highest exponent to the term with the lowest/no exponent.)

Examples

1. $(2x^3 - 8x^2 - 2x) - (-7x^2 - 3x + 9)$

2. $(5x^4 - 2x^3 - 9x) - (4x^3 + 8x^4 - x - 10)$