1.1 Operations with Polynomials

Calendar math September

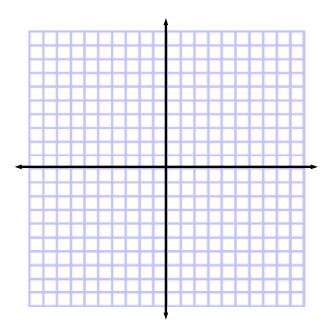
Transformations

Parent Functions: the basic function that is used to create more complex functions

Linear f(x) = x g = x

Quadratic $f(x) = x^2$ $y = x^2$

Absolute Value f(x) = |x| f(x) = |x|



Standard Form: $ax^n + bx + c$

Coefficient: The number IN FRONT of the

variable

leading coefficient: ALWAYS "a"

constant: ALWAYS the loner "c"

degree: the highest exponent

1. 5 5b²

SF: (standard form) $-5b^2 + 5 \rightarrow$

Degree: 2

LC:(leading coefficient) ⁵

2. SF: 7 2 + 2r + 3. D: 2 LC: 7

Adding/Subtracting Like Terms

Rule: Add Coefficients with LIKE exponents

4.
$$(7x + 8x^{4}) + (7x + 2x^{4})$$

7.
$$(6x^{2} + 8x^{4} + 3x^{3})(-)(7x^{4} + 4x^{3} - 8x^{2})$$

$$(5x^{2} + 8x^{4} + 3x^{3})(-)(7x^{4} + 4x^{3} - 8x^{2})$$

$$(5x^{2} + 8x^{4} + 3x^{3})(-)(7x^{4} + 4x^{3} - 8x^{2})$$

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$$(5x^{4} + 8x^{4} + 3x^{4})(-)(7x^{4} + 4x^{4})$$

Subtracting polynomials is slightly different...

7.
$$(6x^2 + 8x^4 + 3x^3) - (7x^4 + 4x^3 - 8x^2)$$

Solve for the?

12. Find the difference of $(7x^2 + 3x + 4) - (?)$ = $(x^2 + x + 3)$

$$-1x^{2} + 3xt + 4$$