

Starter:

1. I turn all of my work into _____
2. Did I get onto Mrs. Ward's Weebly site? _____
3. Did my parents sign the online disclosure? _____

Aug 22-1:01 PM

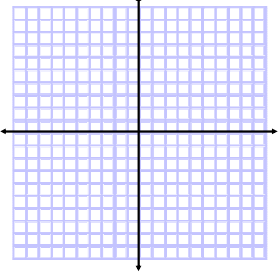
Calendar math September
Transformations

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

Linear $f(x) = x$ $y = x$

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

Absolute Value $f(x) = |x|$
or $y = |x|$



Aug 25-2:11 PM

1.1 Polynomial Operations

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Polynomials

Standard Form: $\underline{a}x^n + bx + \underline{c}$

Coefficient: The number IN FRONT of the variable $\boxed{4}x^4$

Always put polynomial in order from highest exponent to constant

leading coefficient: ALWAYS "a"

constant: ALWAYS the loner "c"

degree: the highest exponent

$$4x^3 + 7x - 5x^6 + 2$$

$$-5x^6 + 4x^3 + 7x + 2$$

L.C = -5
D: 6

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Put it in order then tell me

- the degree
- the leading coefficient
- the constant

1. $4r^1$

a. 1
b. 4
c. 0

2. $-3 - 2x^6 - 10x^2$
 $-2x^6 - 10x^2 - 3$

a. 6
b. -2
c. -3

8. $-4r^2 - 3r^2 + 9r - 6$
 $-3r^2 - 4r^2 + 9r - 6$

a. 2
b. -3
c. -6

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Add and Subtract Polynomials are like fractions. What is the rule for + - fractions?

9. $(-13x^4 + 5) - (-10 + 8x^4 + 3x^2)$
 $-13x^4 + 5 + 10 - 8x^4 - 3x^2$
 $-21x^4 - 3x^2 + 15$

12. $(2x^4 + 5) - (2x - 4x^2 + 1) - (5x + 3)$
 $2x^4 + 5 - 2x + 4x^2 - 1 - 5x - 3$
 $2x^4 + 4x^2 - 7x + 1$

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15. $f(n) = 5n - 5$
 $g(n) = 2n + 5$

Find $(f+g)(n)$
 $(5n-5) + (2n+5)$
 $7n$

17. $5r(5r^2-8)$
 $25r^3 - 40r$

19. $(6p+7)(p-3)$
 $6p^2 - 18p + 7p - 21$
 $6p^2 - 11p - 21$

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27. $f(x) = 3x$
 $g(x) = 3x - 1$

Find $f(x) \cdot g(x)$
 $3x(3x-1)$
 $9x^2 - 3x$

Evaluate each function

31. $f(x) = 3x + 4$ find $f(5)$
 $f(5) = 3 \cdot 5 + 4$
 $= 15 + 4$
 $= 19$

Aug 25-2:09 PM