Aug 25-Math 2/2H

- Calculator Check
- Starter #2
- Calendar Math Pg. 1-2
- Questions on Homework
- 1.1 Multiply Polynomial-Finish the assignment

Aug 25-6:47 AM

September Calendar Math Pg 1-2

Parent Functions:

The basic function that is used to create more complicated functions.

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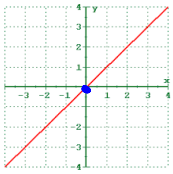
Linear: f(x)=x



point of origin (0,0)
Vertex
Airplane

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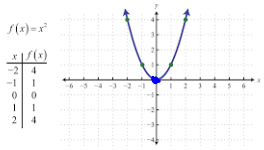
Quadratic: $f(x)=x^2$



point of origin (0,0)
Vertex - bottom of the U

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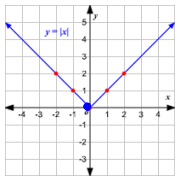
Absolute Value: f(x)=| x |



point of origin (0,0)
Vertex

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Homework Questions...

② $-5x^3+4x^2-x^4$

yes

$-1x^4-5x^3+4x^2$

Degree: 4th

LC: -1

Constant: None

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(14) $(-4x^2-2x+5)-(?)=6x^2+5x-3$

$-4x^2-10x^2=6x^2$

$-4x^2-(-10x^2)$

$-10x^2-7x+8$

$-2x-3=5x$

$-7x$

$5-8=-3$

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1.1 Multiply Polynomial

What do you do when you multiply:

$x^1 \cdot x^1 = x^2$

$x^1 \cdot x^2 = x^3$ $\quad 3x^3 \cdot 5x^4 = 15x^6$

Rule: Add the powers with the same variable, multiply the coefficients

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Multiply with a single term out front:

Ex 1) $4d(5d+6)$ distribute

$20d^2+24d$

	5d	+6
+4d	$20d^2$	$24d$

$20d^2+24d$

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Homework #15

$5r^2(5r-8)$

	5r	-8
$5r^2$	$25r^3$	$-40r^2$

$25r^3-40r^2$

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Ex 2) $3ab^2(8a^4-7a^2b+4a^4b^7)$

	$8a^4$	$-7a^2b$	$4a^4b^7$
$3ab^2$	$24a^5b^2$	$-21a^3b^3$	$12a^5b^9$

$24a^5b^2-21a^3b^3+12a^5b^9$

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How to multiply a multi-term: Box Method

Ex 3) $(y-6)(y+4)$

	y	4
y	y^2	$4y$
-6	$-6y$	-24

outty inny $y^2+4y-6y-24$

$y^2-2y-24$

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Ex 4) $(4m+2n)(6-3n)$

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(18) $(6r-5)^2$

$(6r-5)(6r-5)$

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Ex 5) $(6y^3-2y^2+5y)(7y^3+8)$

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Homework #20

$(x^2-7x+5)(7x^2+7x-6)$

	x^2	$-7x$	$+5$
$7x^2$	$7x^4$	$-49x^3$	$35x^2$
$7x$	$7x^3$	$-49x^2$	$35x$
-6	$-6x^2$	$42x$	-30

$7x^4-49x^3+35x^2+7x^3-49x^2+35x-6x^2+42x-30$

$7x^4-42x^3-20x^2+77x-30$

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Function Notation:

f(x)• g(x)

Ex 7) f(x)=x+3

g(x)=x^2-3x

$f(x)\cdot g(x)$

$(x+3)(x^2-3x)$

	x	3
x^2	x^3	$3x^2$
$-3x$	$-3x^2$	$-9x$

x^3-9x

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Now try Ex 6)

$g(x)=-4x$

$f(x)=-x^2+3x$

Find $g(x)\cdot f(x)$

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Homework #21

$f(n)=n^3+4$

$g(n)=2n+3$

Find $f(n)\cdot g(n)$

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Review: Greatest Common Factor, GCF

The term that will divide evenly into every term

21, 14 $21: 3\cdot 7$ $14: 2\cdot 7$

GCF= 7

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$7x^2$, $14x^4$

$7x^2: 7\cdot x\cdot x$

$14x^4: 2\cdot 7\cdot x\cdot x\cdot x\cdot x$

$7x^2$

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Homework #17

$(3n-8)(3n+8)$

	$3n$	$+8$
$3n$	$9n^2$	$24n$
-8	$-24n$	-64

$9n^2-64$

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(23) 24, 36

$24: 4\cdot 6: 2\cdot 2\cdot 2\cdot 3$

$36: 6\cdot 6: 2\cdot 3\cdot 2\cdot 3$

$2\cdot 3\cdot 2$

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Homework:

- Calculator
- Disclosure Signature:online only
- Finish 1.1 Polynomial Worksheet

Aug 25-7:02 AM