Happy Friday!

- 1) Find your normal seat and take everything out of the folder that is yours. Then return your group folders.
- 2) New Seats (Ms. Stilson will read out)

No, I don't have the quizzes staded yet.

Do Now: Ask your neighbors how they are and record their thoughts.

Awareness Video

Instructional Focus:



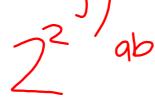
IF.3 I can add, subtract and multiply polynomials

How do we write addition?

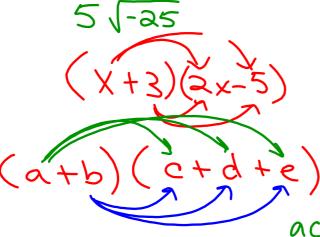
$$a+b$$

How do we write subtraction?

How do we write multiplication?



Order does



actadtae + bothodtbe Ca

Simplify
$$(x+1)(x+1)$$

 $(x+1)(x+1)$
 $(x+1)$

Does order matter when you multiply?
Select an example from above and prove your conjecture to me!

Adding

To add polynomials, simply combine like terms

- things that are alike (have the same exponent)

$$\frac{(2x^{3}-4x^{2}+5x)+(5x^{3}-4x+1)}{7x^{3}-4x^{2}+x+1}$$

$$(2t^{3} + t(4t^{2}) + (-2t^{3} + 4t^{2} + 1)$$
 We do
$$(2t^{3} + t(4t^{2}) + (-2t^{3} + 4t^{2} + 1)$$

#5 on your worksheet

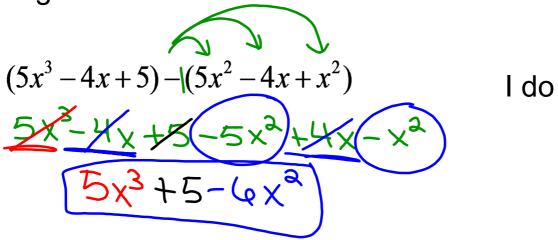
You Do

$$(-7(-p^4)+(13p^5)+(2p^4)+1/3+3p^5)$$

$$(-7(-p^4)+(13p^5)+(2p^4)+1/3+3p^5)$$

Subtracting Polynomials

To subtract polynomials, simply distribute the negative and then ADD



$$(10y^{4} + y - 4y^{2}) + (+2y^{3} + 4y^{2} + 1)$$
 We do
$$(10y^{4} + y - 4y^{2}) + (+2y^{3} + 4y^{2} + 1)$$

$$(10y^{4} + y - 4y^{2}) + (+2y^{3} + 4y^{2} + 1)$$

$$(10y^{4} + y - 4y^{2}) + (+2y^{3} + 4y^{2} + 1)$$

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$$(10y^{4} + y - 4y^{2}) + (+2y^{3} + 2y^{2} + 1)$$

#2 on worksheet

You do

$$(2b+1)+(b^2 \pm 6+2b)$$
 $2b+1-b+6+2b$
 $4b-5-b^2$
 $-b^2+4b-5$

Multiplying Polynomials

To multiply polynomials, use the distributive property, then combine like terms.

$$- |\chi(5x^{3})| = -5x^{4}$$

$$= |\chi(5x^{3})| =$$

You do. Pick 1!

$$(a+b)^3$$
 $5x(2x-3)^2$

By the way...what is a polynomial?

binomial 2 X+1

Exit Slip!

1)
$$(19x^2 + 12x + 12) + (7x^2 + 10x + 13)$$

2)
$$(17x^2 + 7x - 14) - (-6x^2 - 5x - 18)$$

3)
$$-x^2(x+5)$$

Homework: Ops with Polys WS - ALL