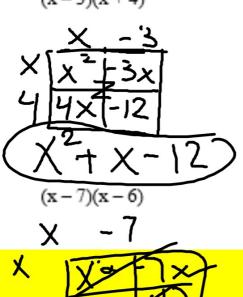
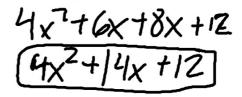
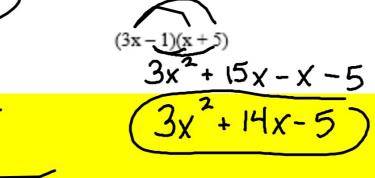
Warm Up

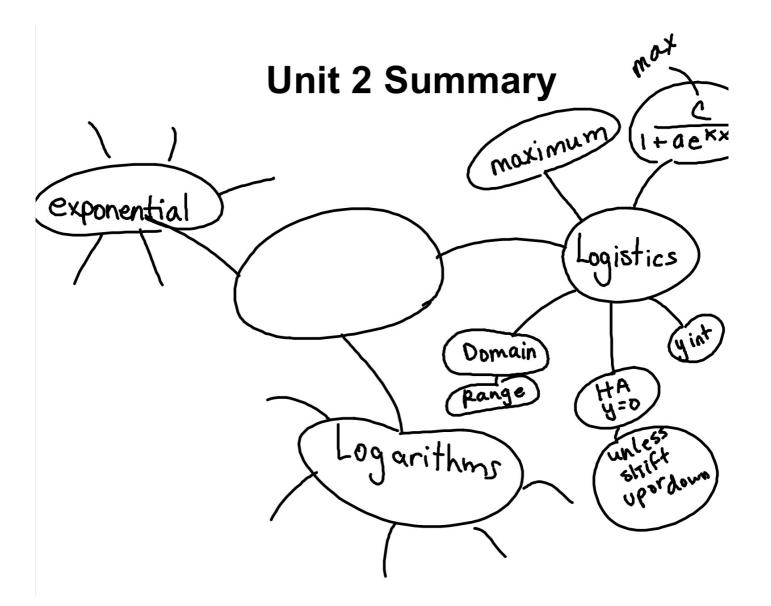
Complete the warm up in your journal!

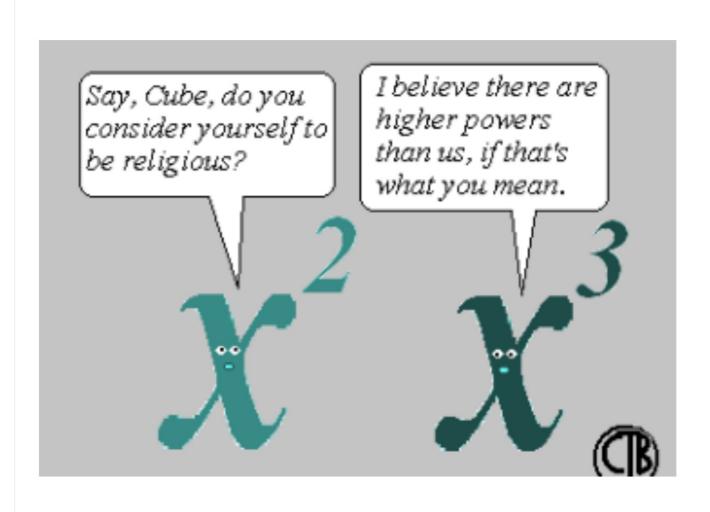
Use the FOIL Method or the Box Method to simplify the following **binomials**: (x-3)(x+4) (2x+4)(2x+3)



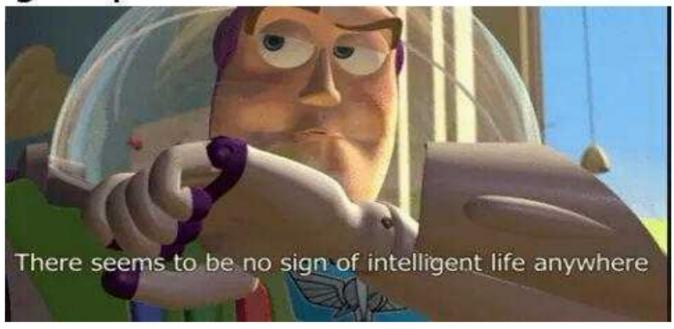


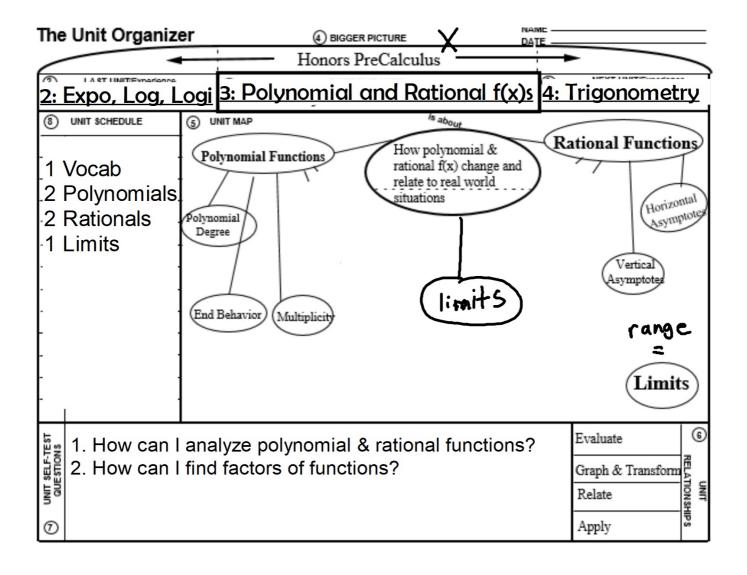






When your entire friend group thinks maths is useless





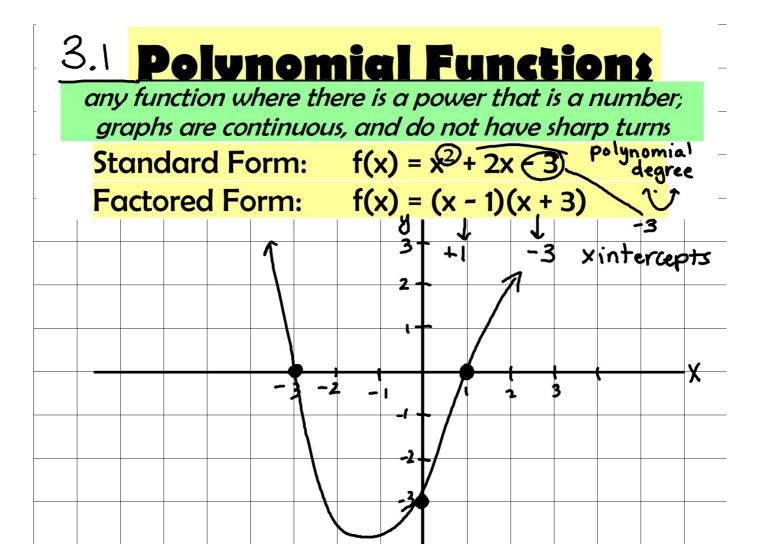
3.0 vocabulary Words

Polynomial Key Concepts

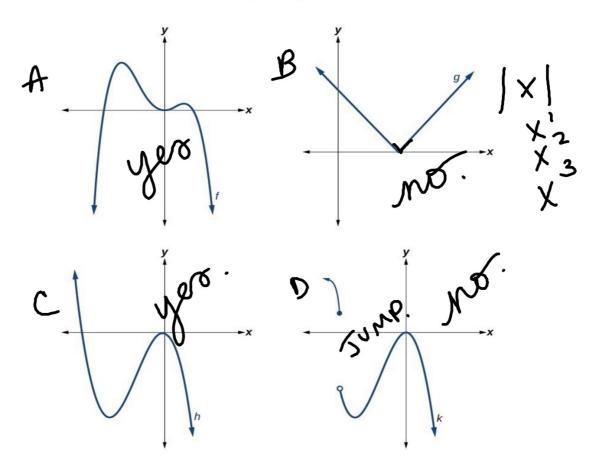
- Polynomial Degree
- End Behavior
- Standard Form
- Factored Form
- X Intercepts
- Y Intercept
- Multiplicity
- Leading Coefficient = a

Rational Key Graph

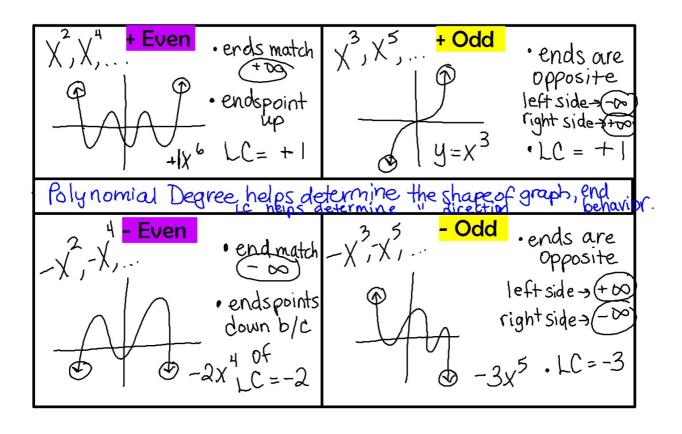
- · y intercepts
- o horizontaj asymptotes
 - > BOBØ
 - >EATS DC
 - > BOTN
 - > BOTS
- overtical asymptotes



Are the following polynomial functions?



3.1 Polynomial Degree & End Behavior

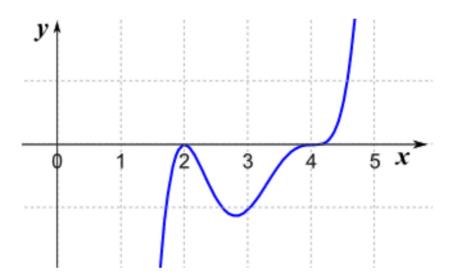


Are the following even or odd? Positive or negative?

X Intercepts & Multiplicity

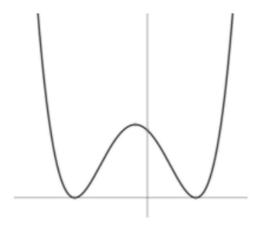
cross	bounce	wiggle

3.1 Write a Polynomial Equation from a graph

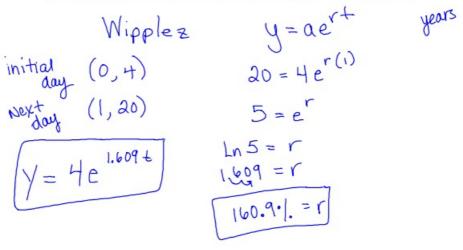


3.1 Write a Polynomial Equation from a graph

What might the equation of this graph be? There is an additional piece of information on this graph.



Project Work Example Step 3



CM: 2 Kiwis 100 perday
$$\frac{100}{2} = 50 \text{ wipple}Z$$

$$y = 4e^{1.609t}$$

$$50 = 4e^{1.609t}$$

$$12.5 = e^{1.609t}$$

$$2.526 = 1.609t$$

$$1.569 = t$$

$$3.569 = t$$

Threshold = 100 wipplez
$$y = 4e^{1.609t}$$

$$100 = 4e$$

$$25 = e^{1.609t}$$

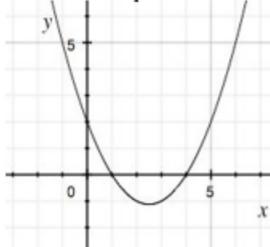
$$= t$$

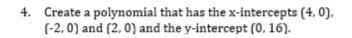
NameObjective 3.1: Creating Equations using Polynomial Degree, Multiplicity, & concepts			Unit 3
Factored Form			Standard Form

3.1 Creating Polynomials Examples & Practice
1. A function has the zeros 3, 6 and 1. Create a polynomial that has these zeros.

Create a polynomial that has the zeros 3, 6 and 1 and contains the point (4, 12)

3. What is an equation for this graph:





5. Create a polynomial, f(x), that has zeros 2 and 3 and f(4) = 10

P-I-G Practice

- Complete the problems
- Check your work!
- Communicate effectively

Exit Task: Investigate the potential polynomial equation of this graph based on what you learned in class today. Write a letter to your favorite celebrity explaining your thoughts. Provide examples to really help them understand the math!

