

Question 10 and 11

Also Graph it!

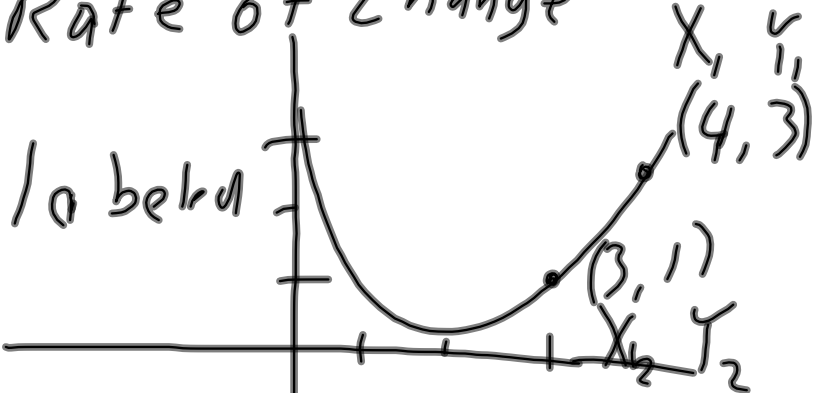
Hint:

Step 1: Plot the zeros on the
x-axis

Step 2: Draw the arrows based on
the end behavior.

Step 3: Connect the dots with curves.

Find the Rate of Change
for the 2 labeled
Points



Bell Work RoC = $\frac{Y_2 - Y_1}{X_2 - X_1}$

$$\frac{1 - 3}{3 - 4} = \frac{-2}{-1} = 2$$

Properties of Functions

Intercepts

X-Axis: $-1, 3.5$

Y-Axis: 2

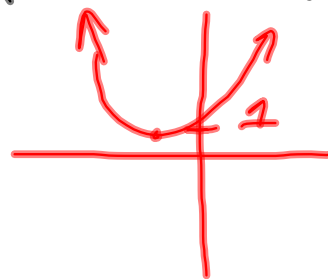
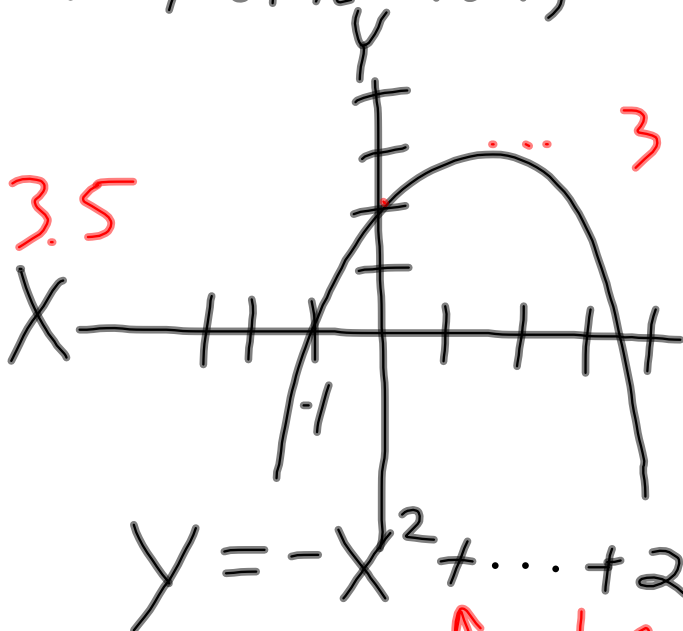
$$y = 3x + 2$$

$$y = mx + b$$

↑
y-int

Max - Maximum Point

Min - Minimum Point



Families of Functions

Parent - original

Child - One that has changed from the Parent Func.

$$y = |x|$$

$$y = |x| + 2$$

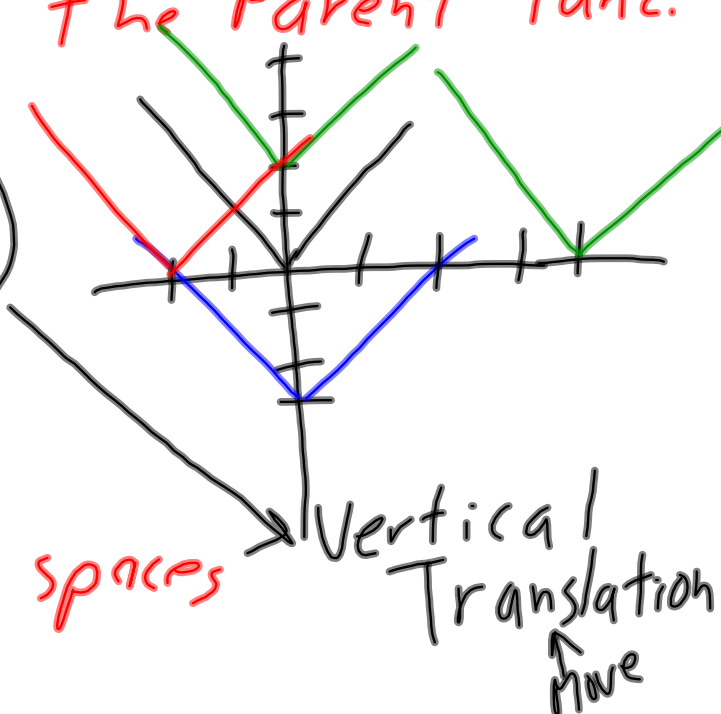
$$y = |x| - 3$$

$$y = |x + 2|$$

Move Left 2 spaces

$$y = |x - 4|$$

Move Right 4 spaces



$$y = |x|$$

$$y = -|x|$$

Reflection over
the x-axis

