Pick up the Warm Up

HW TOLLY-

Transfer the parabola
$$y = 2x^2$$
 so it slides

5 units to the left:

 $y = 2(x+5)$

Then graph both

Simultaneously on your 4DC and make a starch.

 $y = 2x^2$
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2) Transform the parapola $y = x^2 + 5x + 4$ 8 units to the right.

Graph and make a sketch

$$y = (x-8)^2 + 5(x-8) + 4$$

$$x$$

3) A transformed parabola is $y = (x+6)^2$ = What transformation took place?

move 6 left

= What was the original function? $y = x^2$



Notes from Day 2

$$X = \frac{-(5) \pm \sqrt{(5)^2 - 4(1)/6}}{2(1)}$$

$$= \frac{-5 \pm \sqrt{49}}{2} = \frac{-5 \pm 7}{2}$$

$$X = \frac{-5 \pm 7}{2} = \frac{2}{3} = 1$$

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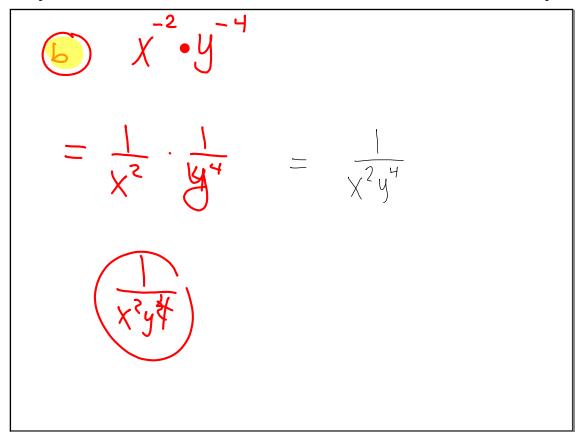
$$(-6,0)$$

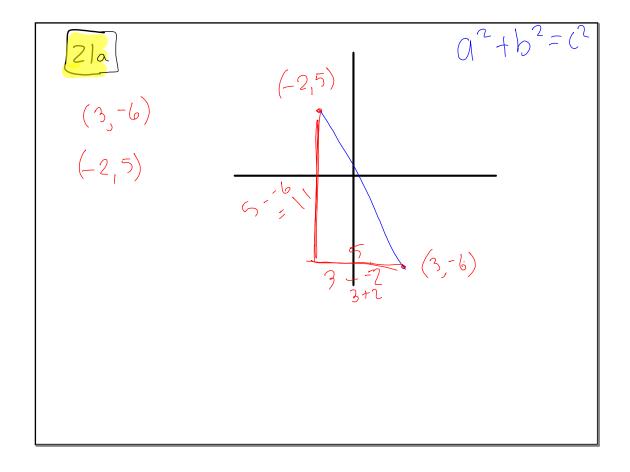
Notes from Day 2

$$= x^2 + 5x - 6 - x^2 - 5x$$

$$\begin{array}{c|c}
\hline
 & & \\
\hline$$

$$\sqrt[3]{(X)} \rightarrow X$$





$$3p + 3d = 27.50 \rightarrow -3p - 3d = 27.50$$

$$4p + 3d = 13.50$$

$$p + 3d + 24 = 37.50$$

From yesterday y = (x-5)(x-5)Why does y = (x-5)(x-5) only touch the x-axis at x = 5?

From yesterday?

$$y = (x)(x)$$
?

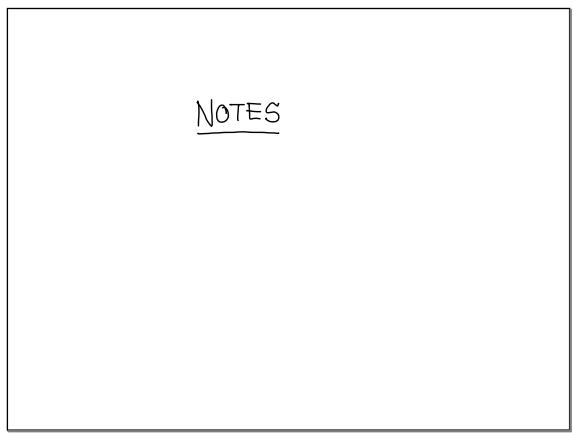
Why does $y = (x-5)(x-5)$ only touch the x-axis at $x = 5$?

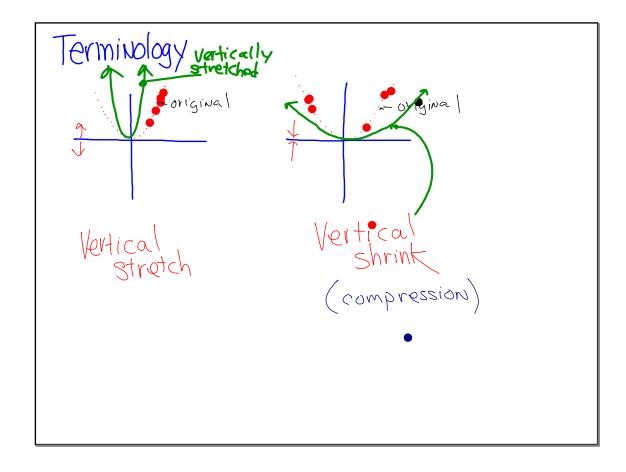
Where will
$$y = (x-8)(x-8)$$
 touch the x-axis?

$$y = (x+2)(x+2)$$

$$y = (x-4)$$

$$y = (x+3)(x-1)$$

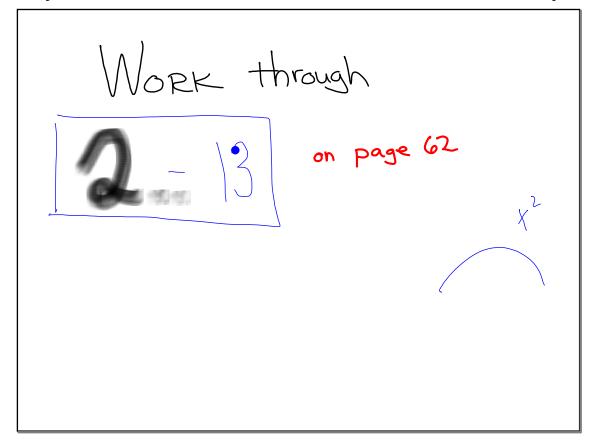


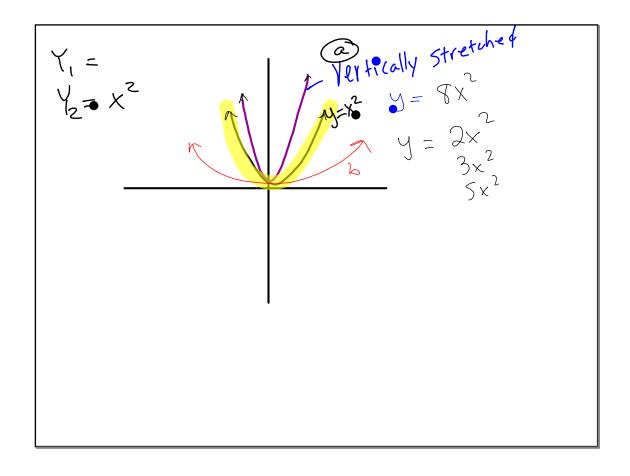


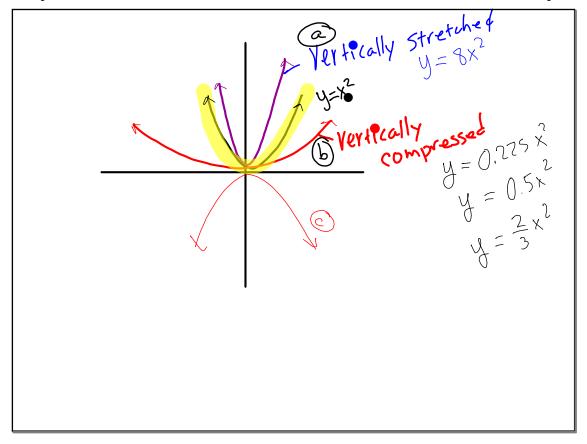
NOTES - Top of a new sheet

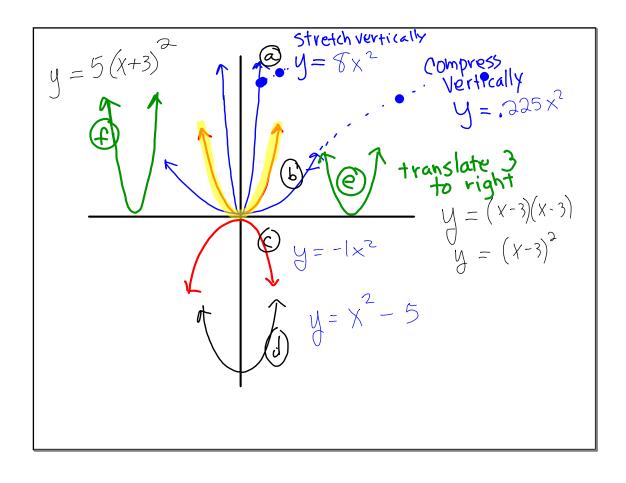
Determine all of the ways to transform a PARABOLA by changing its equation.

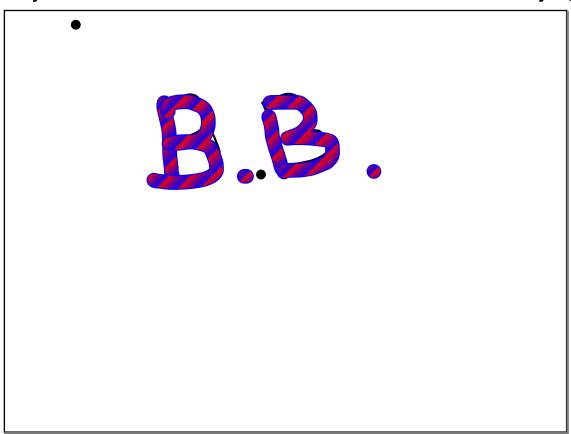
Today's AIM



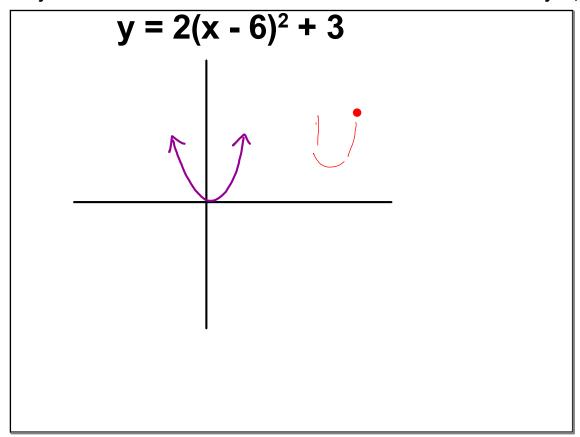








Closure



Without Using a GDC, sketch the following....

$$y = \frac{1}{2}(x + 3)^2 - 4$$

Assignment

2 - 23, 25, 27, 28a, 29

