$5x-2y \le 75$



ab cd



$$S = Pe^{r}$$



$$APY = \left(1 + \frac{r}{n}\right)^n - 1$$

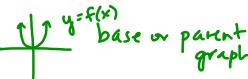
Math 1090 ~ Business Algebra

Section 3.6 Transformations of Graphs

Objectives:

- Differentiate between outside and inside the function.
- Describe shifts, stretches and reflections of a parent function.
- Sketch a graph using shifts, stretches and reflections of the parent function.

Transformations to a graph of f(x).

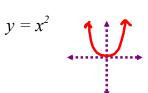


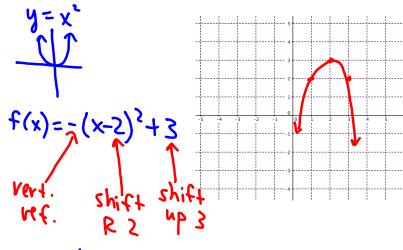
	shift			reflection		stretch/shrink <> 0		
V	f(x)+	h	4<0 down	-f(x)	M	cf(x)	c>1, stath c<1, stirink	constant
Н	f(x-	り プ	h>0 right h<0 left	f(-x)	4	f(cx)	c>1, shrink <<1, stretch	

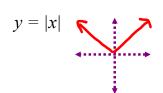
rertical changes: outside the functional changes: inside the function Ex 1: Describe the transformation

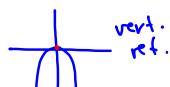
Base graphs

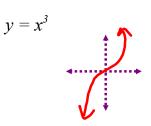
Ex 1: Describe the transformation of $f(x) = -(x-2)^2 + 3$ compared to the base graph of $y = x^2$. Sketch the graph of f(x).





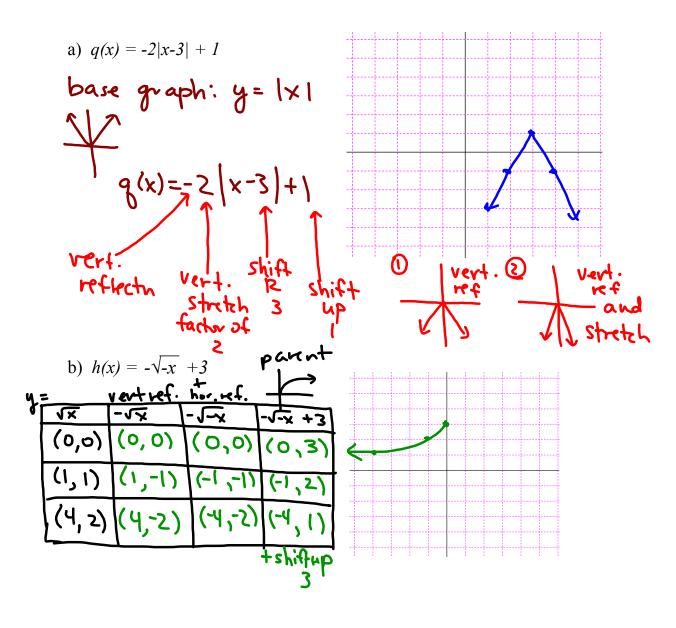






$$y = \sqrt{x}$$

Ex 2: Describe the transformations and sketch the graph.



Ex 3: Given this graph of f(x), sketch the indicated transformed graph.

