



let dup parent function be  $p(x)$ .  
 - affects outside parent.

$$p(x) + a$$

$$ap(x)$$

- inside parent  
 affects inversely

$$p(x + a)$$

$$p(x - a)$$

$$p(ax)$$

to get  $p(0)$ , need input  
 as  $p(0) = p(\underbrace{-a}_{\text{new input slot}}) + a$

$$p(1) = p(a \cdot a^{-1}) = g(a^{-1})$$

$$-p(x)$$

$$p(-x)$$

u)

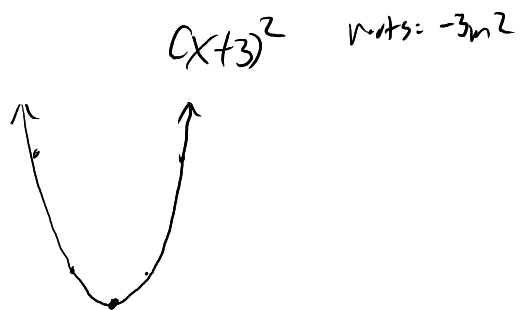
b)

$$u) f(x-1)$$

$$u+b) f(x-1) + 2$$

$$(x-1)^2 + 2$$

$$h(2x) = \sqrt{2x}$$



left

right

up

down

$$\sqrt{-x}$$

y

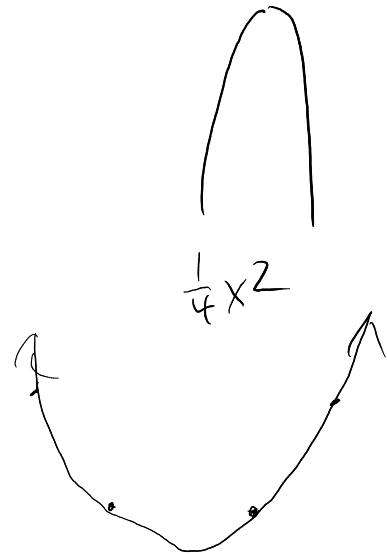
reflects



$$-x^2$$

reflects

x



shrunk  
stretched

$$3x^2$$

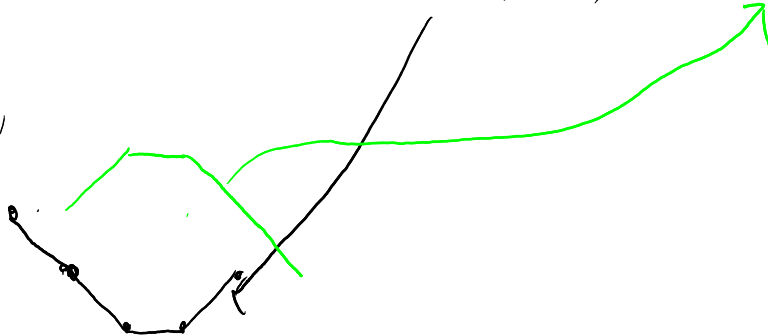
$$\frac{1}{3}x^2$$

stretched  
compressed

inside point: horiz. trans — "inside affects"  
outside point: vert. trans x's inversely

me:  $-f(x+2)$     them:  $2+f(-x)$ .

draw



Others, Play subdivide: start w/ 8 teams, when ten wins,  
team splits till  
singletor, then teams  
merge,

I start  
w/

