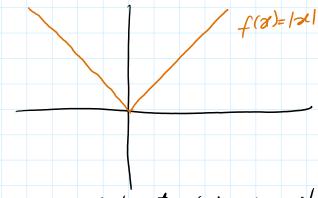
- **11.** Given the function f(x), sketch the graph of the transformed function g(x).
 - a) $f(x) = x^2$, g(x) = -2f(4(x+2)) 2
 - **b)** f(x) = |x|, g(x) = -2f(-3x + 6) + 4
 - c) f(x) = x, $g(x) = -\frac{1}{3}f(-2(x+3)) 2$
- (b) we start by stetching the base parent function f(x) = |x|

This is a well known function that

looks like so:



Now we can look at g(xe) and soe it as series of steps that are transfermations and will be easy to apply to the enginal graph one by one.

use traditional arder of stretch before shift so you want to have

no coefficient inside the brackets

like so: $f(-3x+6)=f(-3(-\frac{3x}{-3}+\frac{6}{-3}))$

