

Transformations Check-in (Not graded)

1. Make a table of values for $f(x) = x^2$ and for $g(x) = f(x + 3)$. Make sure the vertex is in the middle of your table.

x	-2	-1	0	1	2
f(x)	4	1	0	1	4

x	-5	-4	-3	-2	-1
g(x)	4	1	0	1	4

2. a. What transformation(s) happened to turn the first table into the second?

x	-2	-1	0	1	2
f(x)	2	1	0	1	2

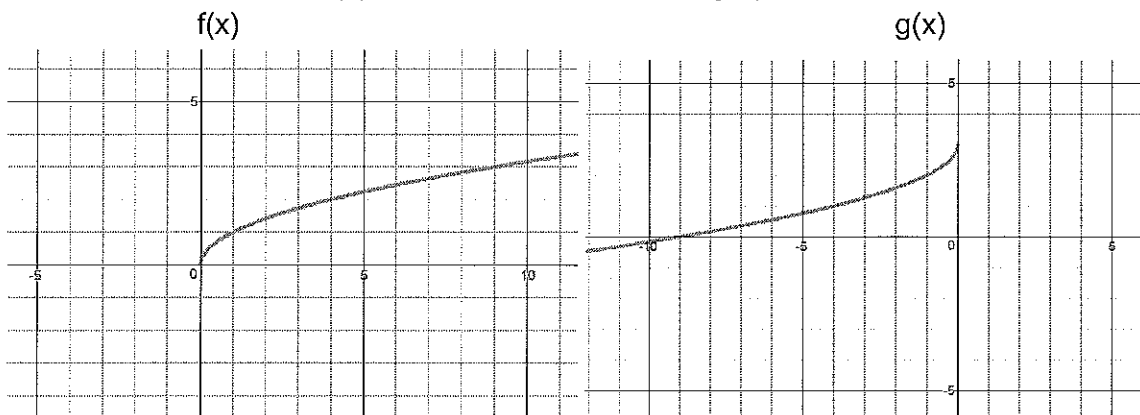
x shifts left 2, y stretches by 2

x	-4	-3	-2	-1	0
g(x)	4	2	0	2	4

- b. Write equations for f(x) and g(x) based on the table.

$f(x) = |x|$ $g(x) = 2|x+2|$

3. a. What transformation(s) happened to turn the first graph into the second?



flip over x, flip over y, shift up 3

- b. Write equations for f(x) and g(x) based on the graphs.

$f(x) = \sqrt{x}$ $g(x) = -\sqrt{-x} + 3$

