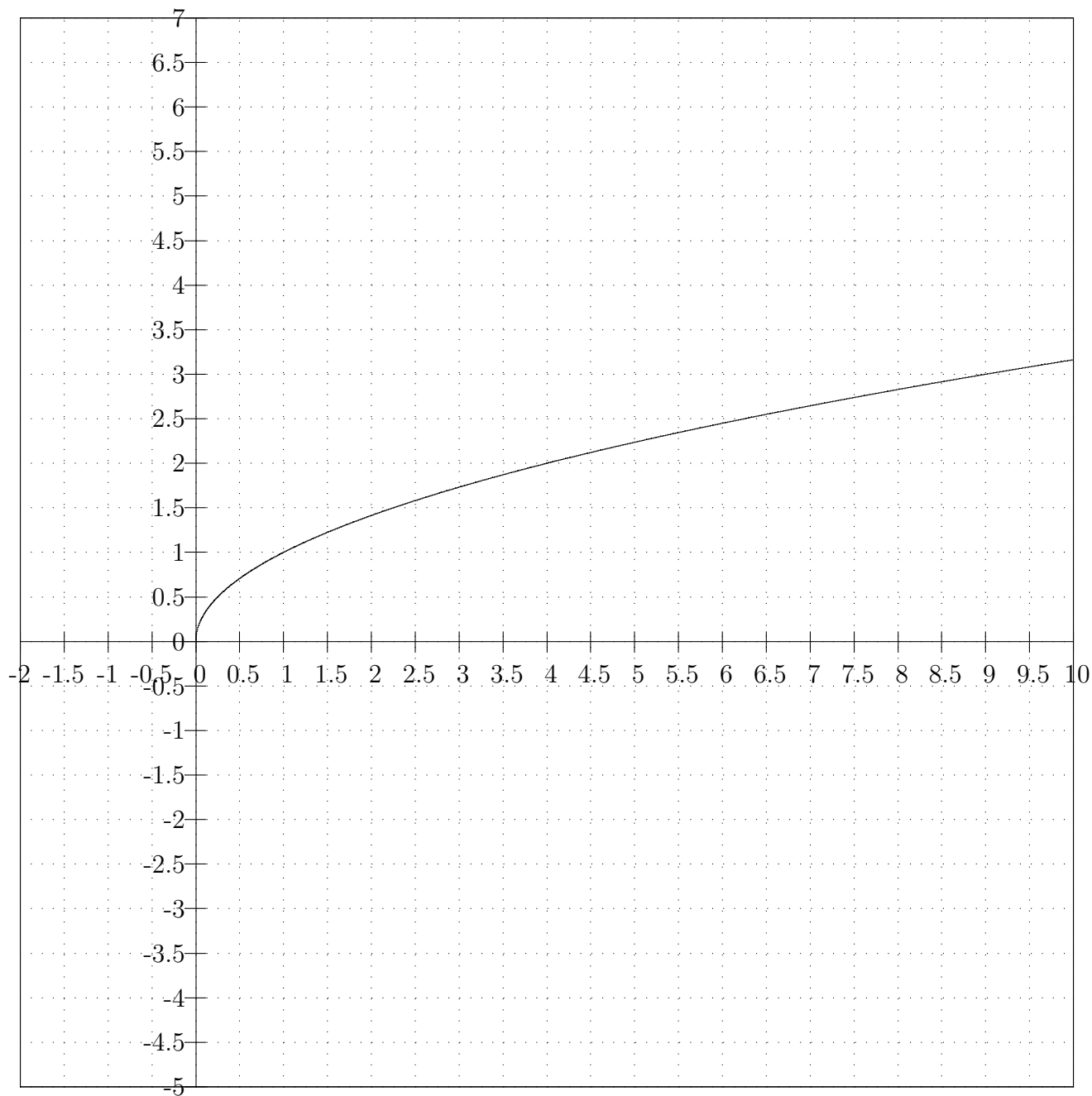


Functions: vertical transformations  
Mr. Neeman, 10A. October 14, 2011

The graph below is of the function  $f(x)$ . Use this to sketch, on the same diagram, the graphs for  $f(x) - 3$ ,  $-f(x)$ , and  $2f(x)$ .



The graph below is of the function  $g(x)$ . Use this to sketch, on the same diagram, the graphs for  $f(x) + 3$ ,  $\frac{1}{2}f(x)$ , and  $-f(x)$ .

