

Math 163A Handout 2: Transformation of graphs	constant on the outside	constant on the inside
additive constant	$g(x) = f(x) + c$ Make graph of g by <u>adding</u> c to the y -values on the graph of f .	$g(x) = f(x + c)$ Make graph of g by <u>subtracting</u> c from the x -values on the graph of f .
multiplicative constant	$g(x) = cf(x)$ Make graph of g by <u>multiplying</u> the y -values on the graph of f by c .	$g(x) = f(cx)$ Make graph of g by <u>dividing</u> the x -values on the graph of f by c .