

Transformations Cheatsheet

keep this by your side for GBTMOST problems!

$f(x) + c$	↑	shift up
$f(x) - c$	↓	shift down
$f(x + c)$	←	shift left
$f(x - c)$	→	shift right
$cf(x) > 1$	U	stretch upward
< 1	∪	flatten
$-f(x)$		flip about x-axis
$f(-x)$		flip about y-axis

$f + g$  add the heights of f & g

$f - g$  the heights between f & g

$1/f$ 
circle is
lines at 0s
opposite behaviour