

Function Transformation Review Notes

$f(x) + 2$ Vertical translation up 2

$f(x) - 2$ Vertical translation down 2

$f(x + 2)$ Horizontal translation left 2

$f(x - 2)$ Horizontal translation right 2

$2f(x)$ Vertical stretch by a factor of 2

$1/2f(x)$ Vertical compression by a factor of 2

$f(2x)$ Horizontal compression by a factor of 2

$f(1/2x)$ Horizontal stretch by a factor of 2

$-f(x)$ Vertical reflection (over the x -axis)

$f(-x)$ Horizontal reflection (over the y -axis)