

Transformations Made Easy!

Horizontal Translation $f(x \pm h)$ Add or subtract from x	Vertical Translation $f(x) \pm k$ Add or subtract from the entire function
Horizontal Stretch/Shrink $f(\frac{1}{a}x)$ Multiply x by the reciprocal of the factor	Vertical Stretch/Shrink $a f(x)$ Multiply the entire function by the factor
Reflection Over y-axis $f(-x)$ Multiply x by negative one	Reflection Over x-axis $-f(x)$ Multiply the entire function by negative one

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