

Function Transformations

Class

Algebra 2

Transformation	Function	Description
Horizontal Shift	f(x + h)	Shift left h units
Horizontal Shift	f(x - h)	Shift right h units
Vertical Shift	f(x) + k	Shift up k units
Vertical Shift	f(x) - k	Shift down k units
Reflection	-f(x)	Reflect across x-axis
Reflection	f(-x)	Reflect across y -axis
Vertical Stretch/Compression	a f(x), a > 1	Stretch vertically by a factor of a
Vertical Stretch/Compression	a f(x), 0 < a < 1	Compress vertically a factor of a
Horizontal Stretch/Compression	f(ax), a > 1	Compress horizontally by a factor of 1/a
Horizontal Stretch/Compression	f(ax), 0 < a < 1	Stretch horizontally by a factor of 1/a

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