Function Transformations

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1. Shifts

y = f(x) + C	C > 0 moves it upC < 0 moves it down
y = f(x + C)	C > 0 moves it leftC < 0 moves it right
y = Cf(x)	 C > 1 stretches it in the y-direction 0 < C < 1 compresses it
y = f(Cx)	 C > 1 compresses it in the x-direction 0 < C < 1 stretches it
y = -f(x)	Reflects it about x-axis
y = f(-x)	Reflects it about y-axis