Rules for Transformations of Functions

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* y = f(x) - k moves f(x) k units down
* y = f(x - h) moves f(x) h units to the right
* y = f(x + h) moves f(x) h units to the left
* y = -f(x) flips the graph over the x-axis
* y = f(-x) flips the graph over the y-axis
* y = a(f(x)), two things can happen:

– If |a| > 1, there is a vertical stretch

– If 0 < |a| < 1, there is a vertical compression (horizontal stretch)

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