

NAME _____

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In your graphing calculator, enter into Y1 the basic function $f(x) = x^2$.

Choose some constant k and enter the following into Y2 through Y8:

$$f(x - k)$$

$$f(x + k)$$

$$f(x) - k$$

$$f(x) + k$$

$$-f(x)$$

$$f(-x)$$

$$k \cdot f(x)$$

Graph and compare your results with $f(x)$ each time.

Repeat the above steps with other basic functions (try $f(x) = x^3$) until you can make a general statement concerning the effects of k . State your conclusions below. Be organized, clear and concise.