

For the statements below, assume C is a positive number.

$$f(x) + c \Rightarrow \underline{\text{Moves } f(x) \text{}}$$

$$f(x) - c \Rightarrow \underline{\text{Moves } f(x) \text{}}$$

$$f(x + c) \Rightarrow \underline{\text{Moves } f(x) \text{}}$$

$$f(x - c) \Rightarrow \underline{\text{Moves } f(x) \text{}}$$

$$cf(x) \Rightarrow \underline{\text{The Y values are}} \quad (\text{C can be negative here})$$

$$f(cx) \Rightarrow \underline{\text{The X values are}}$$

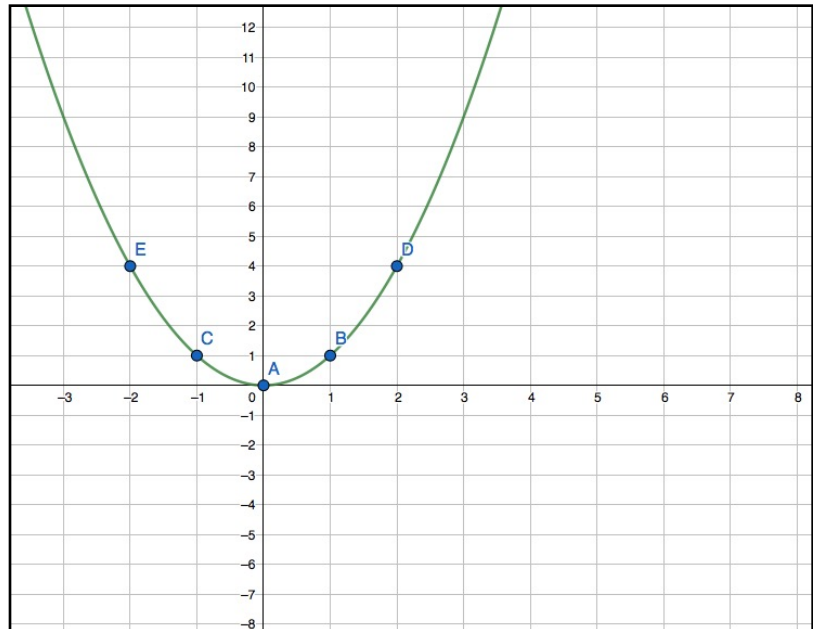
Parent. Multiplier. Shift.

PARENT GRAPH:

- $f(x)$ is pictured to the right.

MULTIPLIER:

SHIFT:



$$3f(x-2) - 5$$

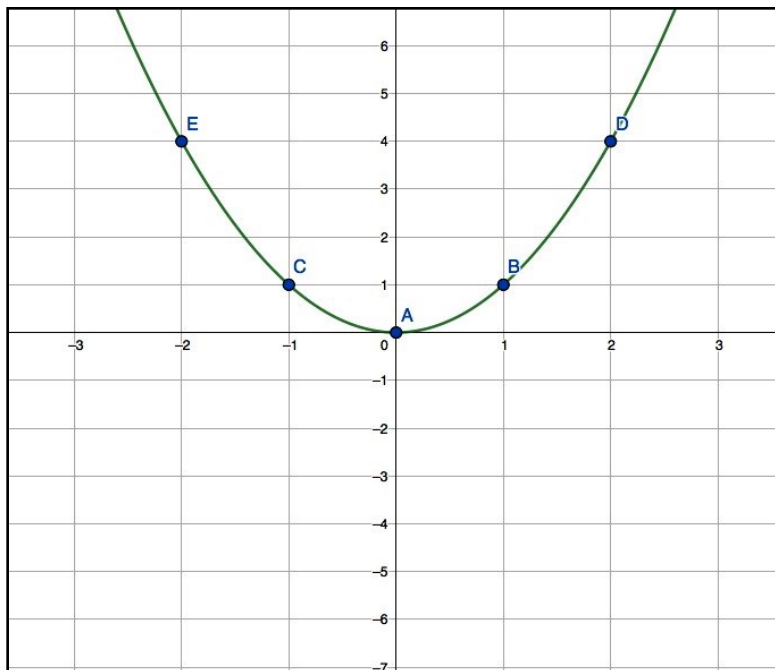
Parent. Multiplier. Shift.

PARENT GRAPH:

- $f(x)$ is pictured to the right.

MULTIPLIER:

SHIFT:



$$-f(x)+5$$

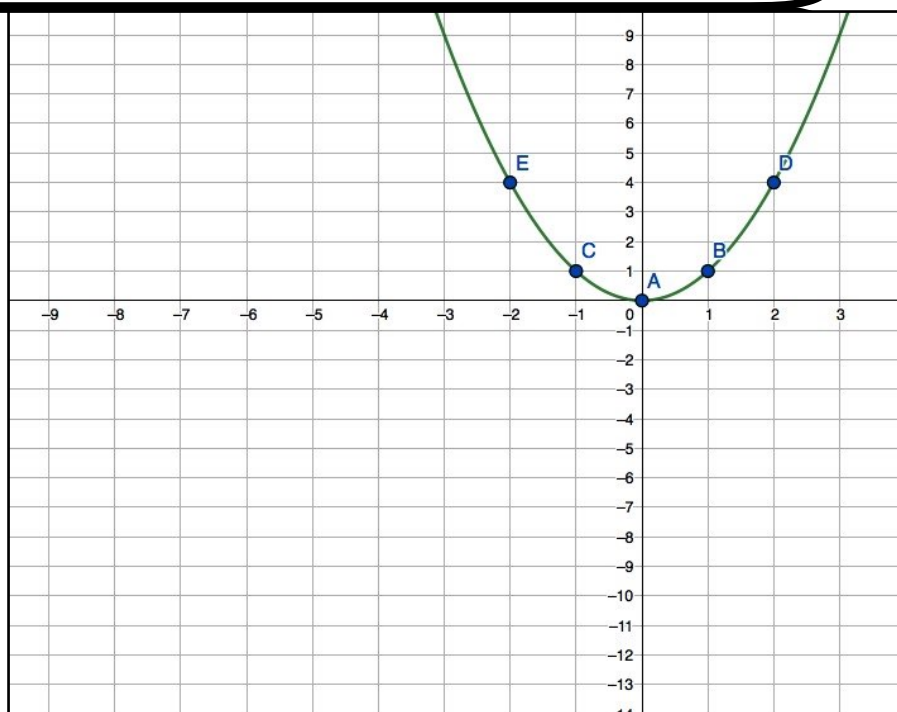
Parent. Multiplier. Shift.

PARENT GRAPH:

- $f(x)$ is pictured to the right.

MULTIPLIER:

SHIFT:



$$-\frac{1}{4}f(x+4)$$

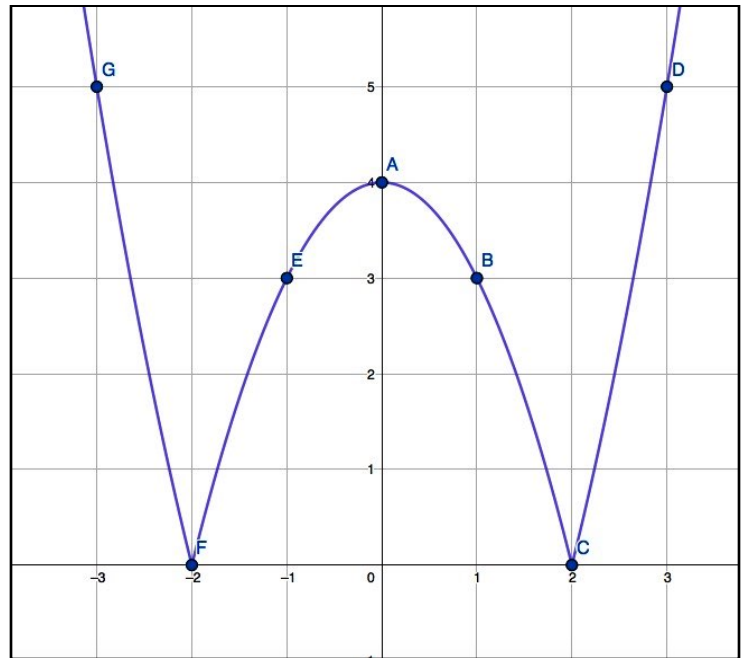
Parent. Multiplier. Shift.

PARENT GRAPH:

- $f(x)$ is pictured to the right.

MULTIPLIER:

SHIFT:



$$f(2x)$$

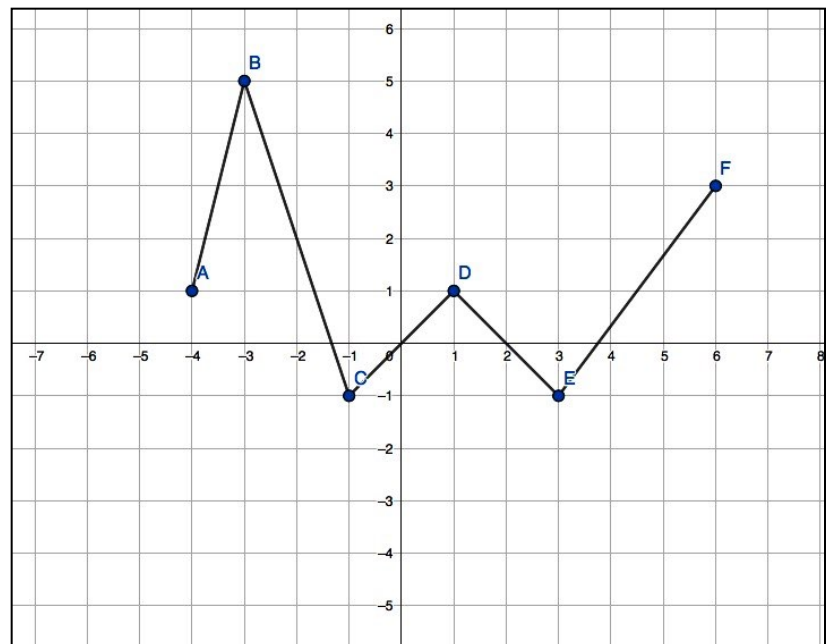
Parent. Multiplier. Shift.

PARENT GRAPH:

- $f(x)$ is pictured to the right.

MULTIPLIER:

SHIFT:



$$-f(x-2)$$