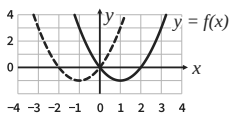
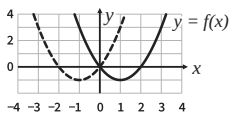


Graph Transformations *ramp up*

a How does $y = f(x) + 3$ move the graph of $y = f(x)$? 	b How does $y = f(x + 3)$ move the graph of $y = f(x)$? 	c How does $y = f(x - 2)$ move the graph of $y = f(x)$? 	d $y = -f(x)$ is a reflection of $y = f(x)$. Which axis is it reflected in?
e $y = f(-x)$ is a reflection of $y = f(x)$. Which axis is it reflected in? 	f $(2, 5)$ is on $y = f(x)$. Where does it move to on $y = f(x) - 4$? 	g $(2, 5)$ is on $y = f(x)$. Where does it move to on $y = f(x + 1)$? 	h $(2, 5)$ is on $y = f(x)$. Where does it move to on $y = f(-x)$?
i Write the dashed graph using f  	j $y = x^2$ is translated 4 to the right. Find the new equation. 	k $(3, 1)$ is on $y = f(x)$. Where does it move to on $y = f(x + 2) + 1$? 	l $(1, 4)$ is on $y = f(x)$. Where does it move to on $y = -f(x) + 2$?

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