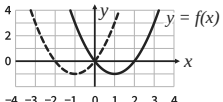
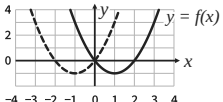


a How does $y = f(x) + 3$ move the graph of $y = f(x)$? <u>up 3</u> $f(x) + a$ moves the graph up	b How does $y = f(x + 3)$ move the graph of $y = f(x)$? <u>left 3</u> $f(x + a)$ moves the graph left	c How does $y = f(x - 2)$ move the graph of $y = f(x)$? <u>right 2</u> $f(x - a)$ moves the graph right	d $y = -f(x)$ is a reflection of $y = f(x)$. Which axis is it reflected in? <u>X axis</u> $-f(x)$ reflects in the x axis
e $y = f(-x)$ is a reflection of $y = f(x)$. Which axis is it reflected in? <u>y axis</u> $f(-x)$ reflects in the y axis	f (2, 5) is on $y = f(x)$. Where does it move to on $y = f(x) - 4$? <u>(2, 1)</u> a point under $f(x) - a$	g (2, 5) is on $y = f(x)$. Where does it move to on $y = f(x + 1)$? <u>(1, 5)</u> a point under $f(x + a)$	h (2, 5) is on $y = f(x)$. Where does it move to on $y = f(-x)$? <u>(-2, 5)</u> a point under $f(-x)$
i Write the dashed graph using f  <u>$y = f(x + 2)$</u> naming a translation from its graph	j $y = x^2$ is translated 4 to the right. Find the new equation. <u>$y = (x - 4)^2$</u> the equation after a translation	k (3, 1) is on $y = f(x)$. Where does it move to on $y = f(x + 2) + 1$? <u>(1, 2)</u> two translations at once	l (1, 4) is on $y = f(x)$. Where does it move to on $y = -f(x) + 2$? <u>(1, -2)</u> a reflection and a translation

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