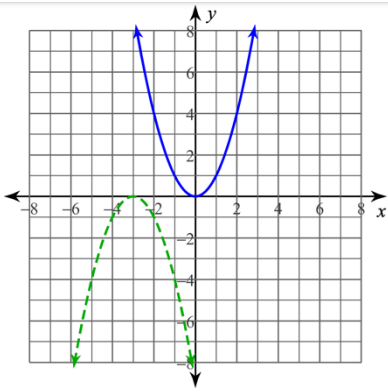


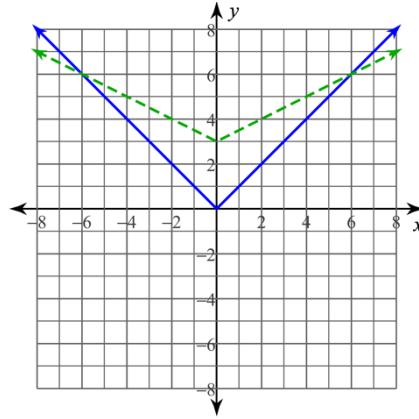
2.5 Extra Practice

1.) $f(x)$ is the solid lined function (blue). $g(x)$ is the dotted function (green) and is a transformed version of the parent function $f(x)$. List the transformations applied to $f(x)$ to achieve $g(x)$.

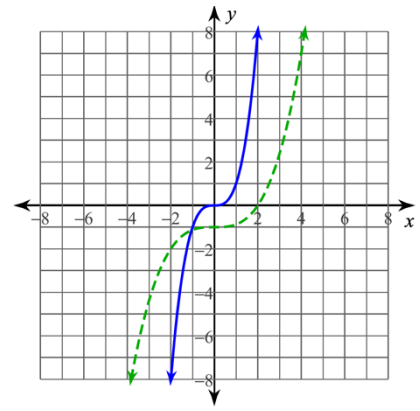
a.)



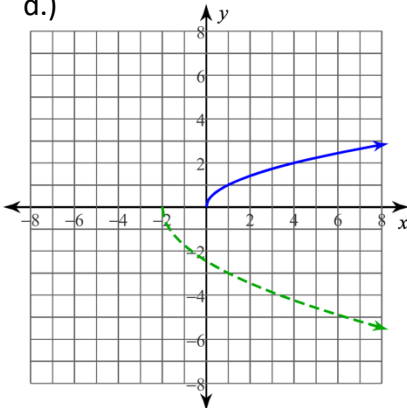
b.)



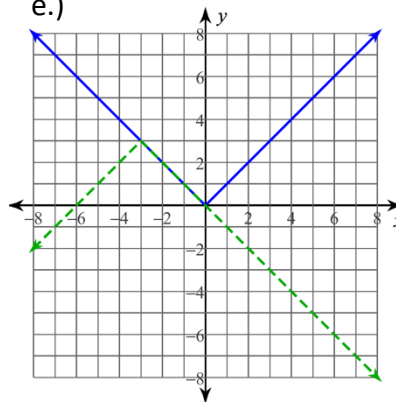
c.)



d.)



e.)



2.) List the transformations done to $f(x)$ to achieve $g(x)$.

a.) Parent Function: $y = f(x)$

$$g(x) = f(-x) - 8$$

b.) Parent Function: $y = f(x)$

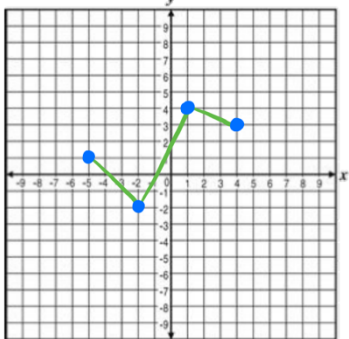
$$g(x) = 7f(x + 5)$$

c.) Parent Function: $y = f(x)$

$$g(x) = -f\left(\frac{1}{3}x\right) + 4$$

3.) The graph of $f(x)$ is given. Graph $g(x)$ (a transformation of $f(x)$) on the provided graphs and list the transformations.

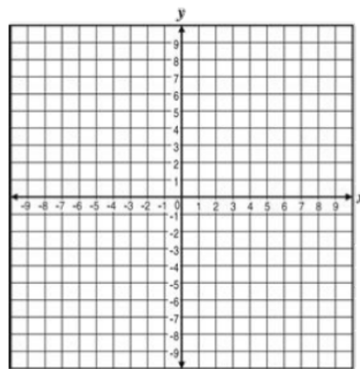
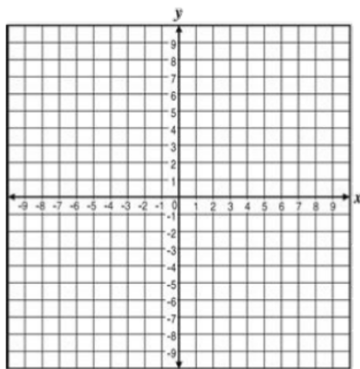
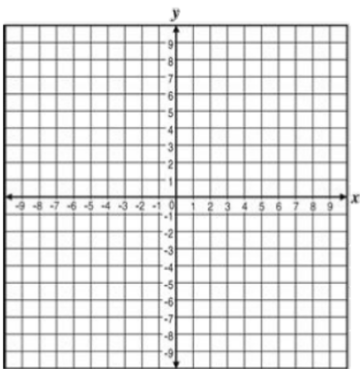
Graph of $f(x)$



a.) $g(x) = -2f(x)$

b.) $g(x) = f\left(\frac{1}{2}x\right)$

c.) $g(x) = f(x + 3) + 6$



d.) $g(x) = f(-x)$

e.) $g(x) = f(x - 2)$

f.) $g(x) = -f(x - 2) - 3$

