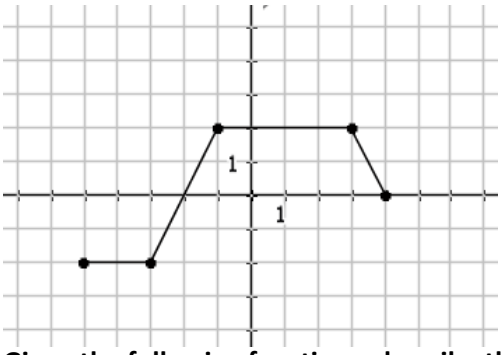
Name: _____ Hour: _____ Date: _____

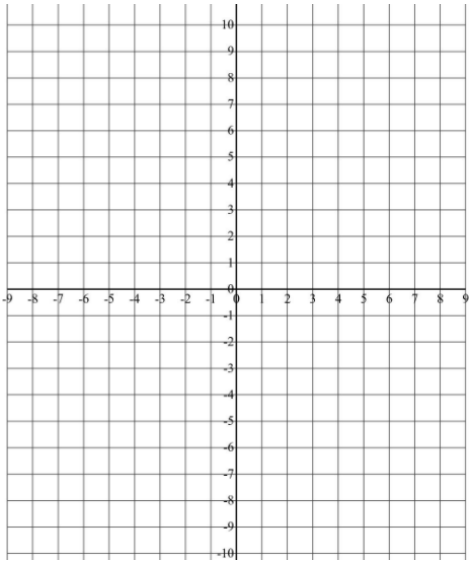
Transforming Arbitrary Functions Practice I

The following graph is the parent function *f(x)*. Create a table of values to find points which represent this parent function.

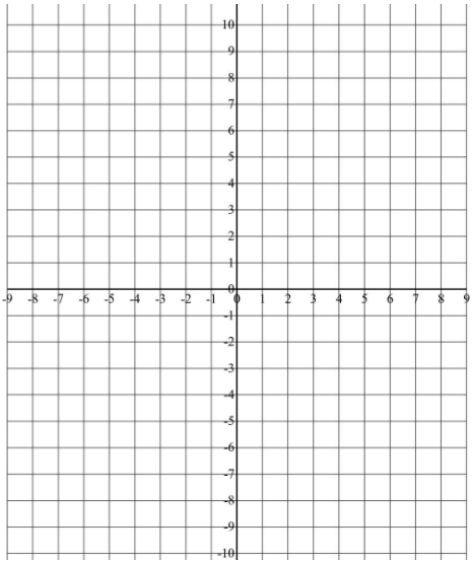


Given the following functions, describe the transformations occurring from *f(x)*. Then make a new table of values representing the transformed points and sketch the graph of the new function.

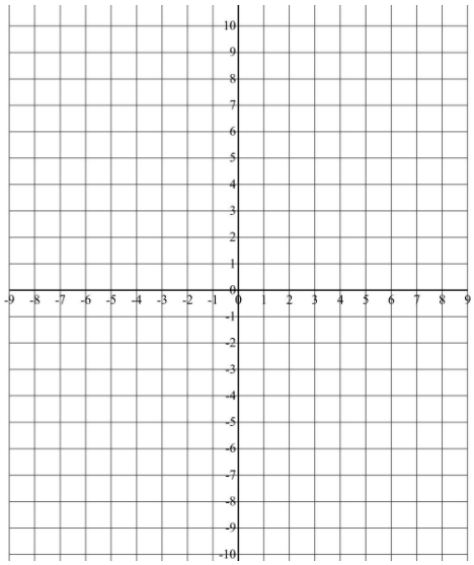
1) $\boldsymbol{f(x) \rightarrow f(x) + 2}$



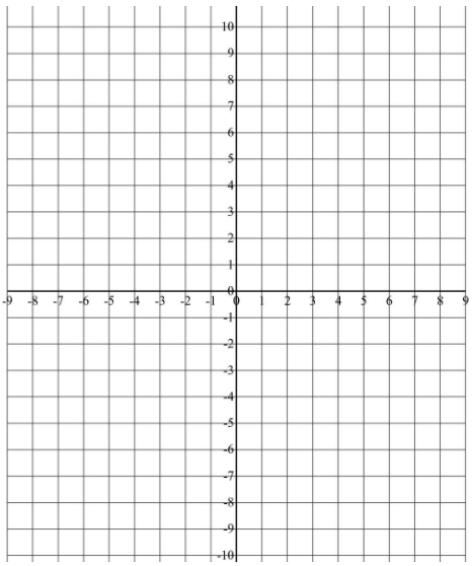
2) $f(x) \rightarrow f(x + 2)$



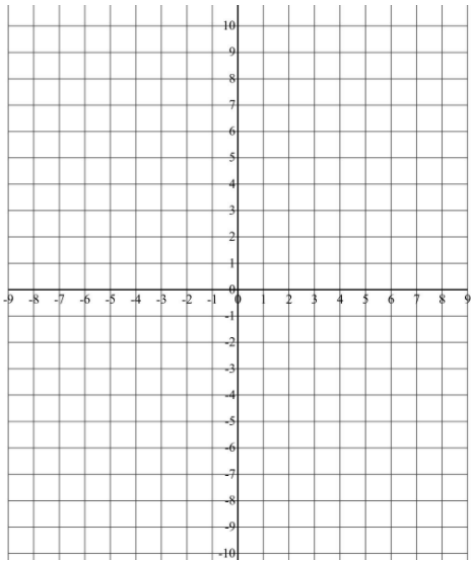
3) $\boldsymbol{f(x) \rightarrow f(x) - 1}$



4) $f(x) \rightarrow f(x-1)$



5) $f(x) \rightarrow -f(x)$



6) $f(x) \rightarrow f(-x)$