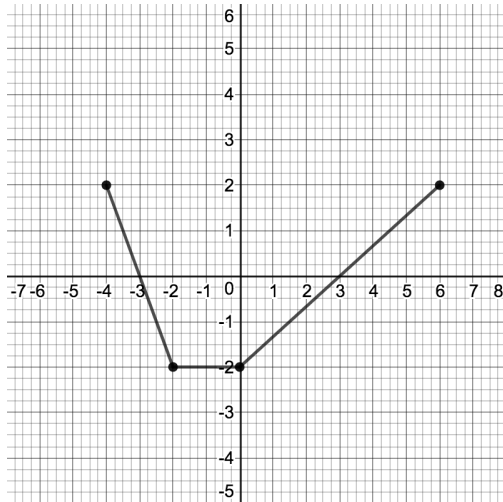


§P.7 & P.8: Transformations of Functions

1.] Suppose we have a piecewise linear function $f(x)$ defined by the graph below:



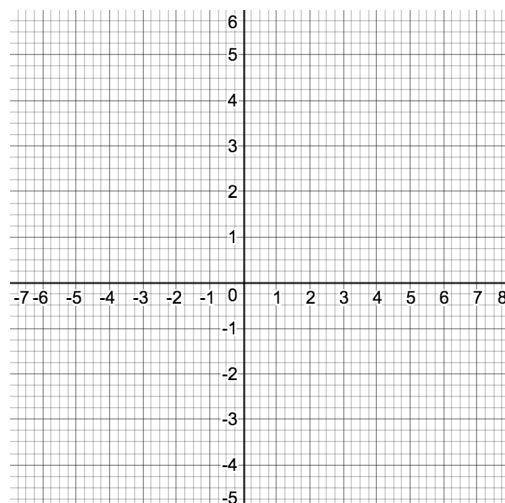
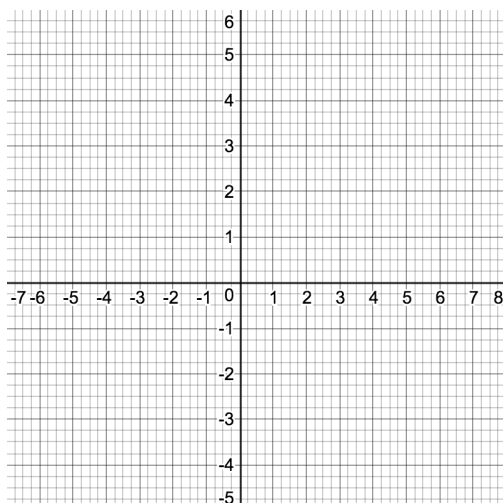
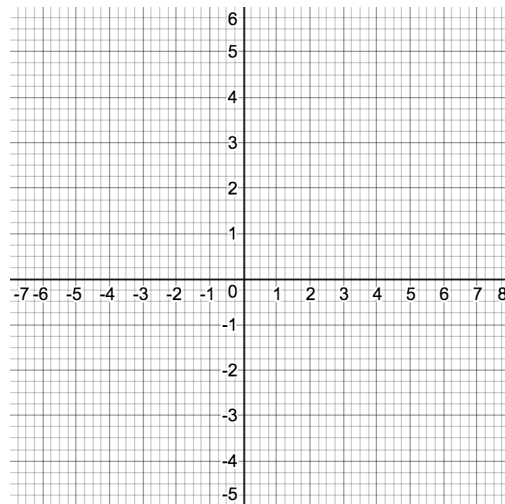
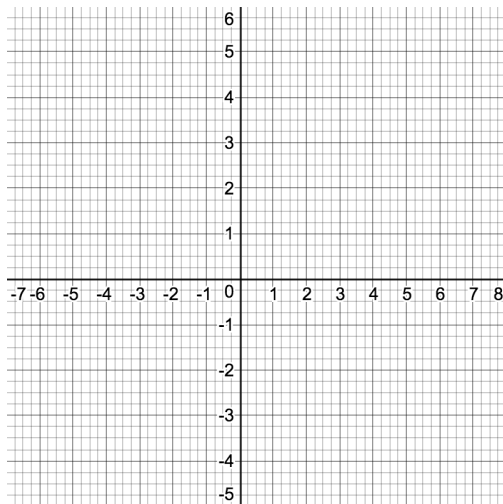
On the pieces of graph paper provided below, sketch the transformed functions:

a.) $y = f(-x)$

b.) $y = f(x) + 3$

c.) $y = -f(x + 2)$

d.) $y = f(2x) - 1$



2.] Consider the list of functions below. Match each function to its graph.

(A) $f(x) = -(x - 2)^3$

(B) $f(x) = -3 - (x + 1)^2$

(C) $f(x) = 4 - (x - 2)^2$

(D) $f(x) = -|x + 3| - 2$

(E) $f(x) = -(x + 1)^3$

(F) $f(x) = \frac{1}{2}\sqrt{x}$

(G) $f(x) = 2\sqrt{x}$

(H) $f(x) = |x - 1| + 2$

