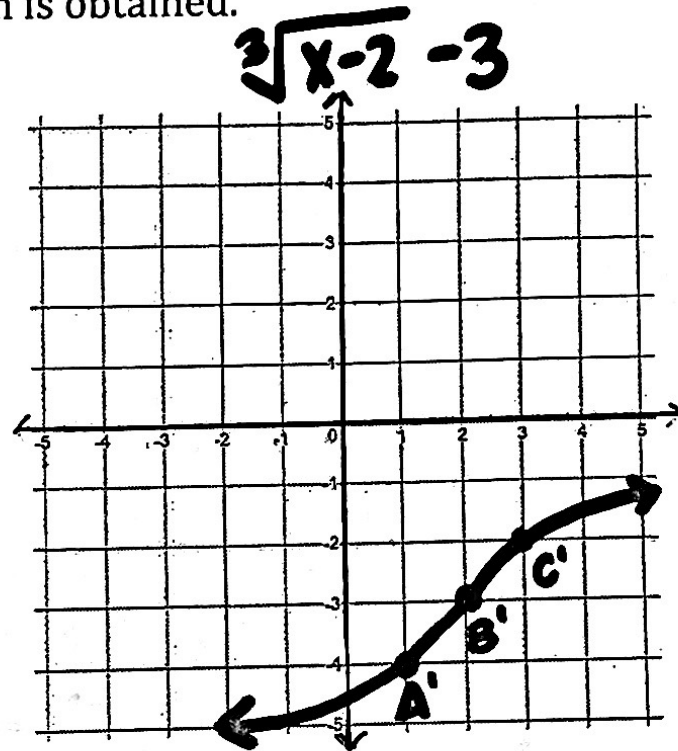
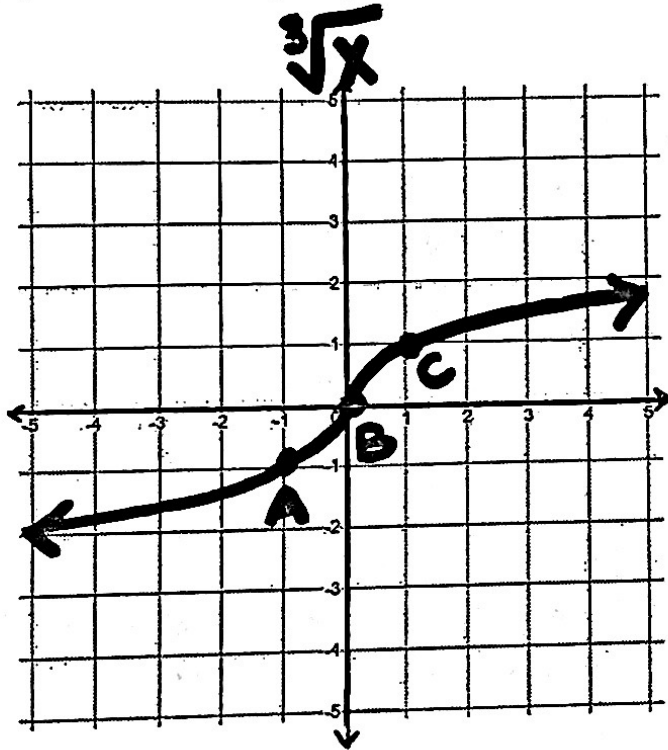


# KEY

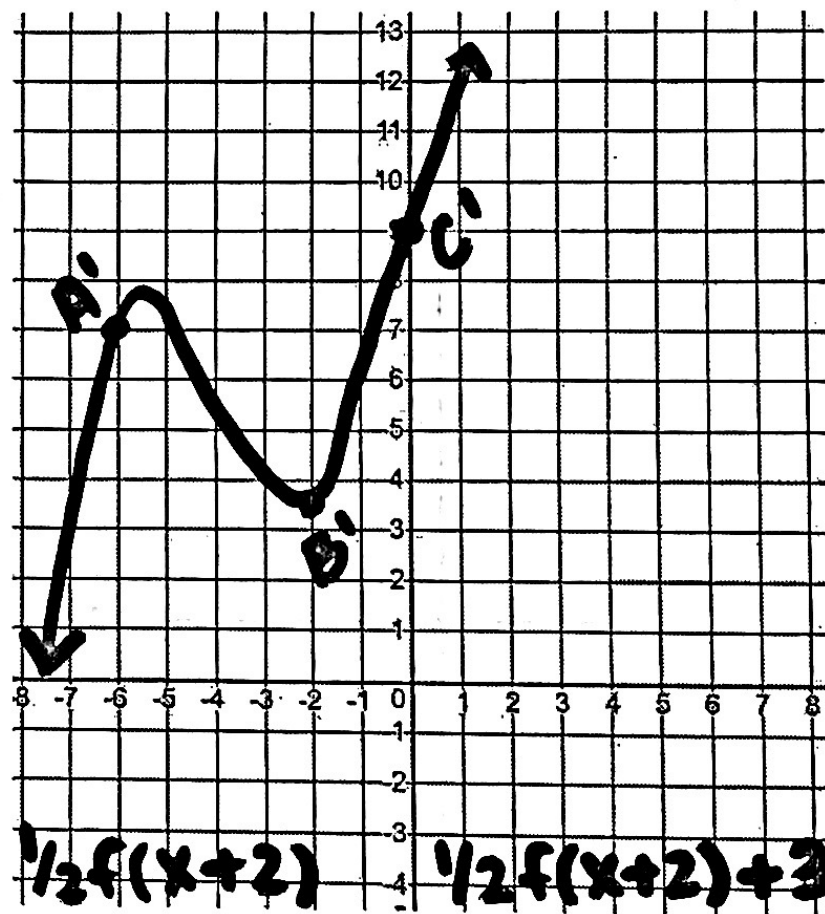
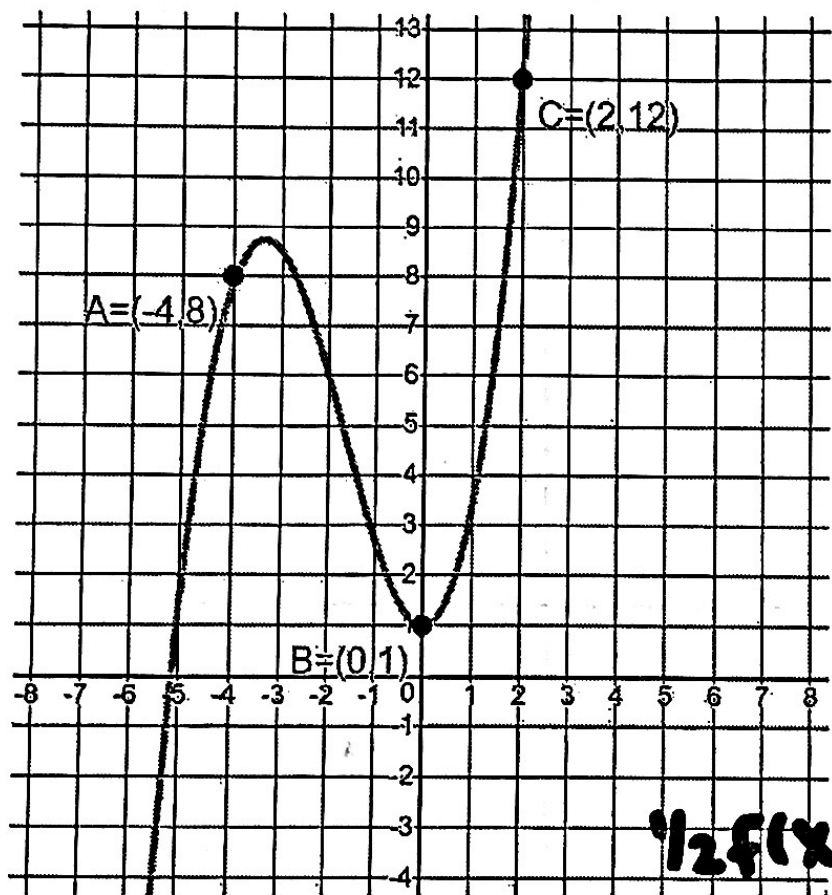
## Math 1050 PRACTICE Quiz (3.4-3.5)

1. Draw the graph of  $g(x) = \sqrt[3]{x-2} - 3$  using transformations starting with  $f(x) = \sqrt[3]{x}$ . To graph  $y = f(x)$  use three appropriate points and indicate the new locations of those points on the graph  $y = g(x)$ . Must show/explain how the new graph is obtained.



Horizontal Shift right 2  
Vertical Shift down 3

3. The graph of the function  $y = f(x)$  is given below. Sketch the graph of the function  $g(x) = \frac{1}{2}f(x+2) + 3$ . Be sure your graph labels the transformed images of the points  $A(-4, 8)$ ,  $B(0, 1)$ , and  $C(2, 12)$ .



$$A: (-4, 8) \rightarrow (-4, 4) \rightarrow (-6, 4) \rightarrow (-6, 7)$$

$$B: (0, 1) \rightarrow (0, \frac{1}{2}) \rightarrow (-2, \frac{1}{2}) \rightarrow (-2, 3\frac{1}{2})$$

$$C: (2, 12) \rightarrow (2, 6) \rightarrow (0, 6) \rightarrow (0, 9)$$