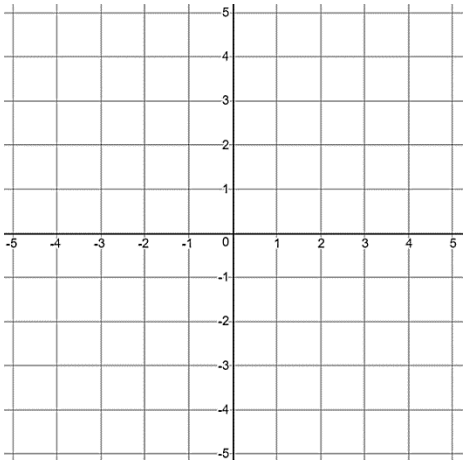
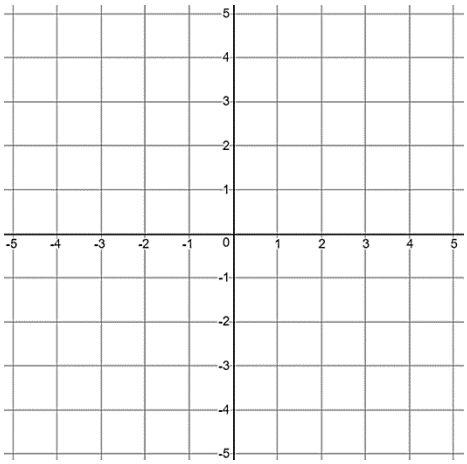
Math 1050 PRACTICE Quiz (3.4-3.5)

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.

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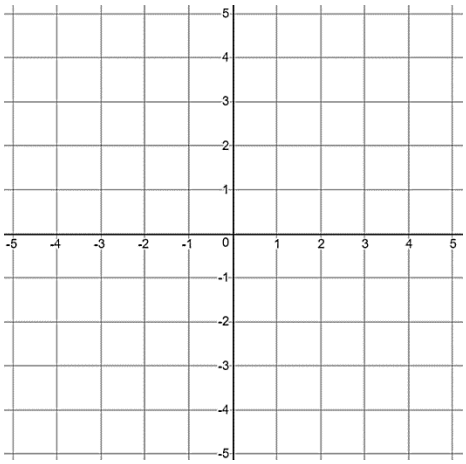
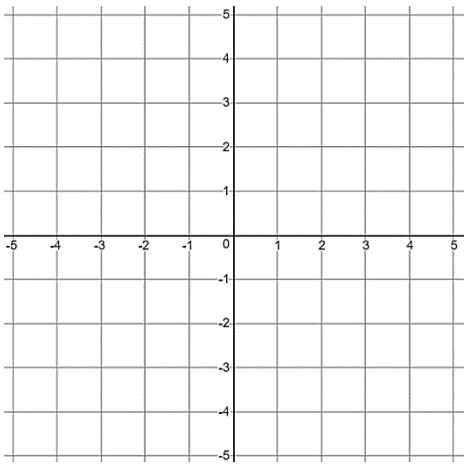
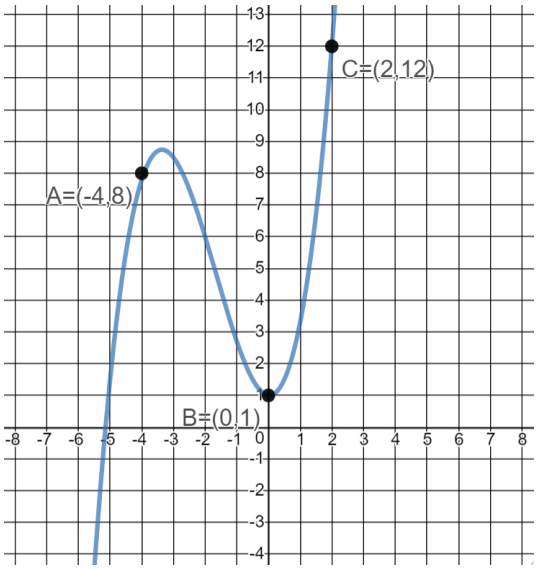
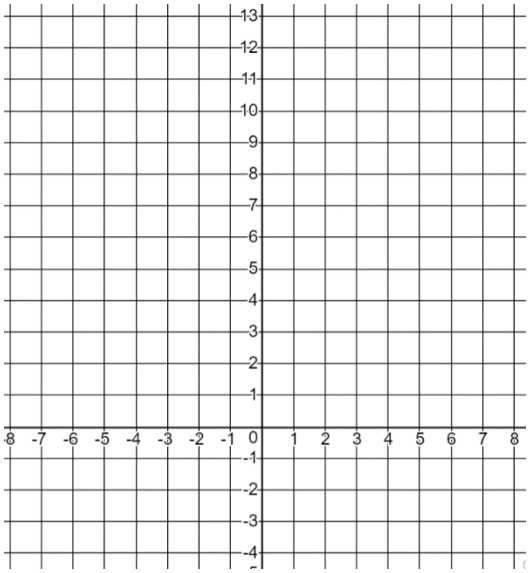



2. The graph of the function $y = f(x)$ is given below. Sketch the graph of the function $g(x) = \frac{1}{2}f(x+2) + 3$. Be sure your graph labels the transformed images of the points $A(-4, 8)$, $B(0, 1)$, and $C(2, 12)$.





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 $C(2, 12)$.