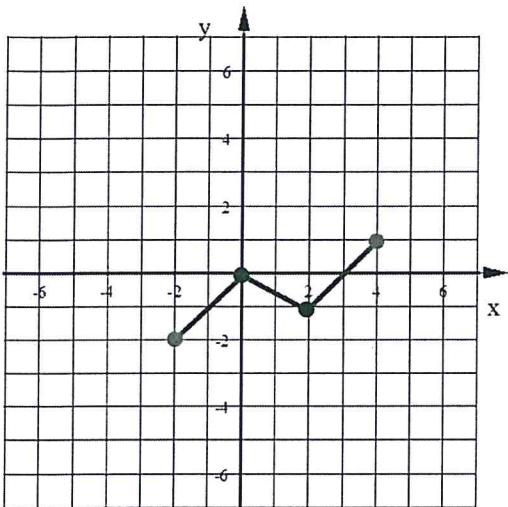


Below is the graph of $y=f(x)$

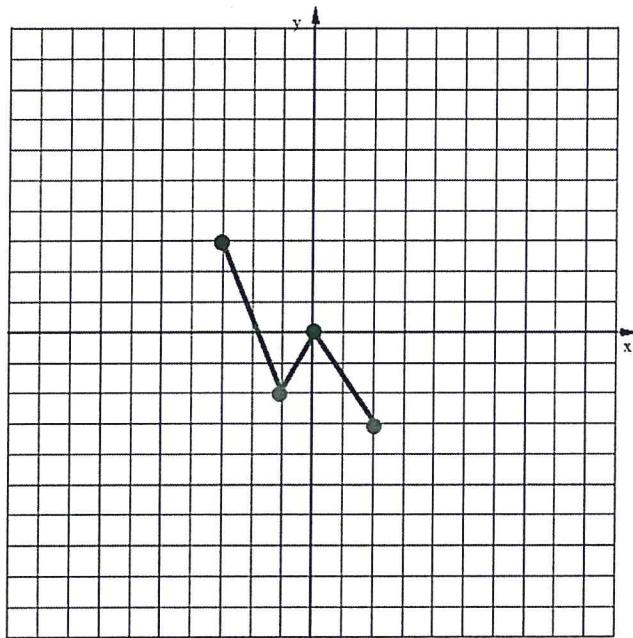
ALG 2A BELWORK
11-3-16



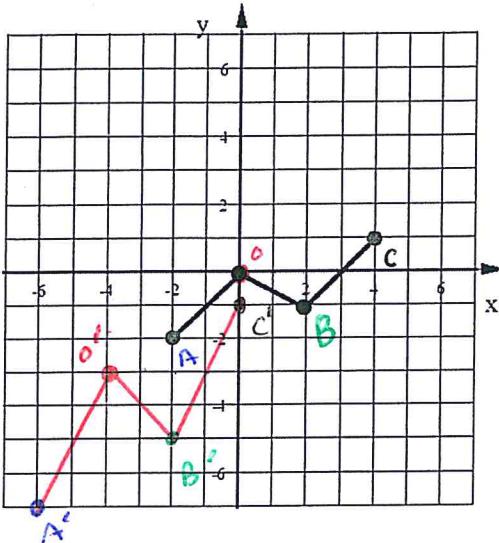
Graph $y = 2f(x + 4) - 3$

Below is the graph of $y=f(x)$

Graph $y = -3f(x - 5) + 1$



Below is the graph of $y=f(x)$



ALG 2A BELWORK

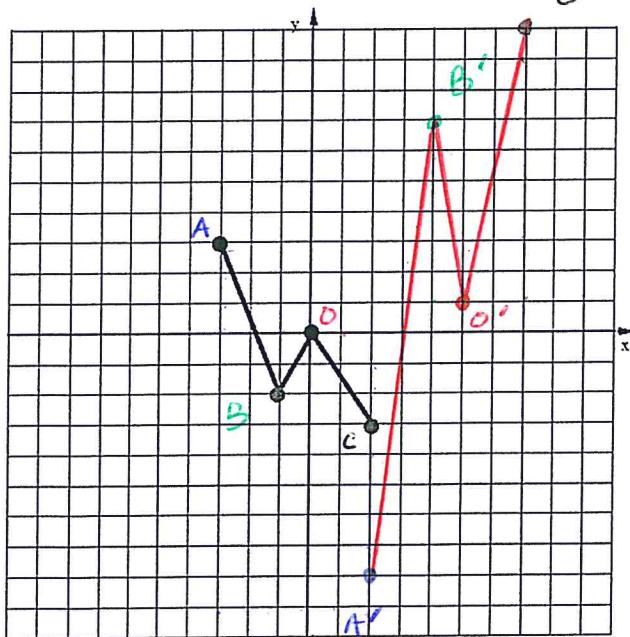
11-3-16

Graph $y = 2f(x + 4) - 3$

4 left 3 down

$$\begin{array}{c} \text{Original: } A(-4, -1) \rightarrow A'(-2, -1) \\ \text{Vertical stretch by 2: } A'(-2, -1) \rightarrow A''(-2, 1) \\ \text{Horizontal shift left by 4: } A''(-2, 1) \rightarrow A'''(2, 1) \\ \text{Vertical shift down by 3: } A'''(2, 1) \rightarrow A''''(2, -2) \end{array}$$

Below is the graph of $y=f(x)$



Graph $y = -3f(x - 5) + 1$

5 rt 1 up

$$\begin{array}{c} \text{Original: } A(-3, 4) \rightarrow A'(2, 4) \\ \text{Vertical stretch by 3: } A'(2, 4) \rightarrow A''(2, 13) \\ \text{Horizontal shift right by 5: } A''(2, 13) \rightarrow A'''(7, 13) \\ \text{Vertical shift up by 1: } A'''(7, 13) \rightarrow A''''(7, 14) \end{array}$$