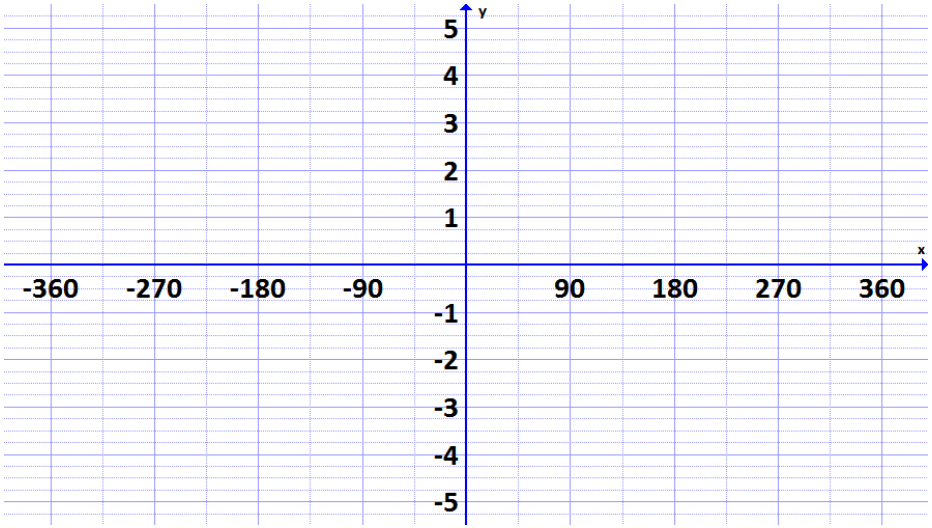
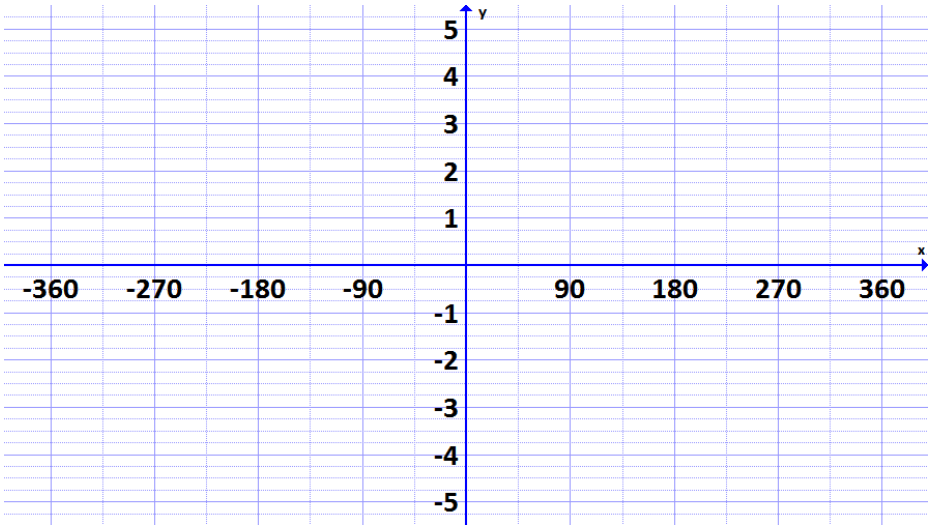
Using Transformations to Sketch the Graphs of Sinusoidal Functions

Graph $f(x) = 2\sin\big(4(x-60)\big) + 3$



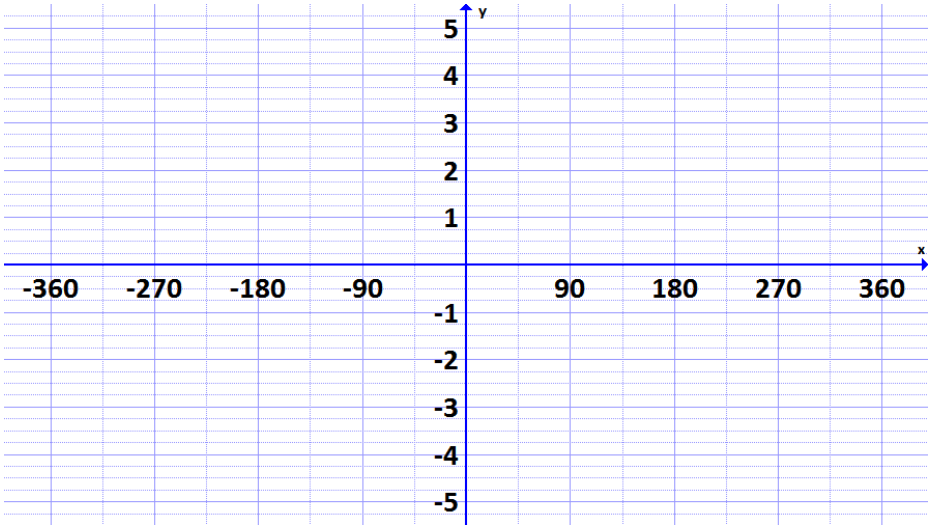
Explain the steps you took to create the graph on the left.

Graph $f(x) = 3\sin\left(-\frac{1}{2}(x+180)\right) - 1.5$



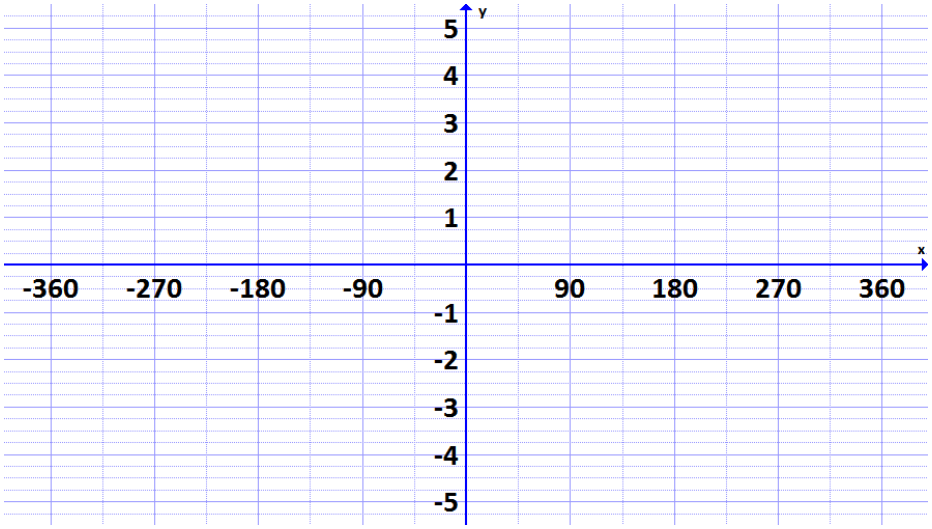
Explain the steps you took to create the graph on the left.

Graph $f(x) = -4\cos\left(\frac{2}{3}(x + 270)\right) - 1$



Explain the steps you took to create the graph on the left.

Graph $f(x) = 0.5\cos(-2(x - 360)) + 4$



Explain the steps you took to create the graph on the left.