This is the graph of a sine function: it has the repeating hill and valley pattern and passes through the origin. The amplitude of this graph and $y = 2\sin 3x$ is 2.

This graph has 3 cycles in the interval $[0, 2\pi]$, or a period of $\dfrac{2\pi}{3}$. The same is true for $y = 2\sin 3x$, so the graph and the function match.