This graph has the hill and valley shape of a sine function, so $y = a\sin bx$. The amplitude is 3. It has the same orientation as the graph of $y = \sin x$ and therefore $a = 3$.

Now there are 6 cycles shown on the interval $[0, 3\pi]$, or 4 cycles on the interval $[0, 2\pi]$. This tells you that $b = 4$. So this could be the graph of $y = 3\sin 4x$.