This has the repeating hill and valley pattern of the graph of a cosine function. The amplitude of this graph and $y = \frac{3}{2}\cos 4x$ is $\frac{3}{2}$. This graph has 2 cycles on the interval $[0, \pi]$, so a period of $\frac{\pi}{2}$.

The function $y = \frac{3}{2}\cos 4x$ has a period of $\frac{2\pi}{4} = \frac{\pi}{2}$. So the graph and the function match.