

This has the right amplitude and period, and it is the graph of a cosine function. However, it has been flipped over the x -axis, which is what would happen if there was a negative coefficient. In particular, it passes through

$\left(0, -\frac{3}{2}\right)$, while the graph of $y = \frac{3}{2}\cos 4x$ would pass through $\left(0, \frac{3}{2}\right)$.