

This function has the same amplitude and period as the graphed function. However, its graph does not pass through the point $\left(\frac{\pi}{10}, -3\right)$. When $x = \frac{\pi}{10}$, $y = 3\sin\left(5 \cdot \frac{\pi}{10}\right) = 3\sin\left(\frac{\pi}{2}\right) = 3 \cdot 1 = 3$, not -3 .