

Because the low point is $\left(\frac{\pi}{10}, -3\right)$, the depth of the valley is 3. This is the amplitude of the function that was graphed. The amplitude of $y = -3\sin 5x$ is also 3. The point $\left(\frac{\pi}{10}, -3\right)$ satisfies $y = -3\sin 5x$.

The length of one cycle is $\frac{2\pi}{5}$. This is equal to the period of the function that was graphed. The period of $y = -3\sin 5x$ is also $\frac{2\pi}{5}$. So this could be the function that was graphed.