Because the high point is (0, 4), the height of the hill is 4. This is the amplitude of the function that was graphed. The amplitude of $y = 4 \cdot \cos 5x$ is also 4.

The length of one cycle is $\frac{2\pi}{5}$. This is equal to the period of the function that was graphed. Now $y = 4 \cdot \cos 5x$ also has a period equal to $\frac{2\pi}{5}$. So this could be the function that was graphed.