

You have confused the effects of a and b in $y = a \cos bx$. The amplitude of this graph is 3, while the amplitude of $y = -\frac{1}{3} \cos 3x$ is $\frac{1}{3}$. The graph shows half of a cycle on an interval of length 3π , so the period of the graph is 6π .

The period of $y = -\frac{1}{3} \cos 3x$ is $\frac{2\pi}{3}$. The correct answer is the graph passing through

$$\left(0, -\frac{1}{3}\right).$$