Practice quiz onTangent Lines to Functions

PUNTOS TOTALES DE 2

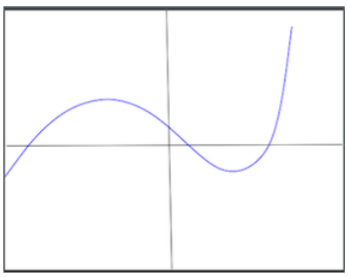
1. Suppose that $f : \mathbb{R} \to \mathbb{R}$ is a function. Which of the following expressions corresponds to $f'(2)$, the slope of the tangent line to the graph of $f(x)$ at $x = 2$? **1 / 1 puntos**

- ○ $f'(2) = mx + b$
- ○ $f'(2) = \lim_{h \to 0} \frac{f(a+h) - f(a)}{h}$
- ◉ $f'(2) = \lim_{h \to 0} \frac{f(2+h) - f(2)}{h}$
- ○ $f'(2) = 2$

✓ **Correcto**

This expression can be obtained from the first screen of our video by plugging in 2 for a.

2. Suppose that $h : \mathbb{R} \to \mathbb{R}$ is a function whose graph is shown as the blue curve in the figure. For how many values of a is $h'(a) = 0$? **1 / 1 puntos**



- ○ 3
- ○ Never
- ○ Always
- ◉ 2