✓ **Congratulations! You passed!**

TO PASS 75% or higher

Keep Learning

GRADE
100%

Practice quiz onTangent Lines to Functions

TOTAL POINTS 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 point`

   ○ $f'(2) = 2$

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

   ○ $f'(2) = mx + b$

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

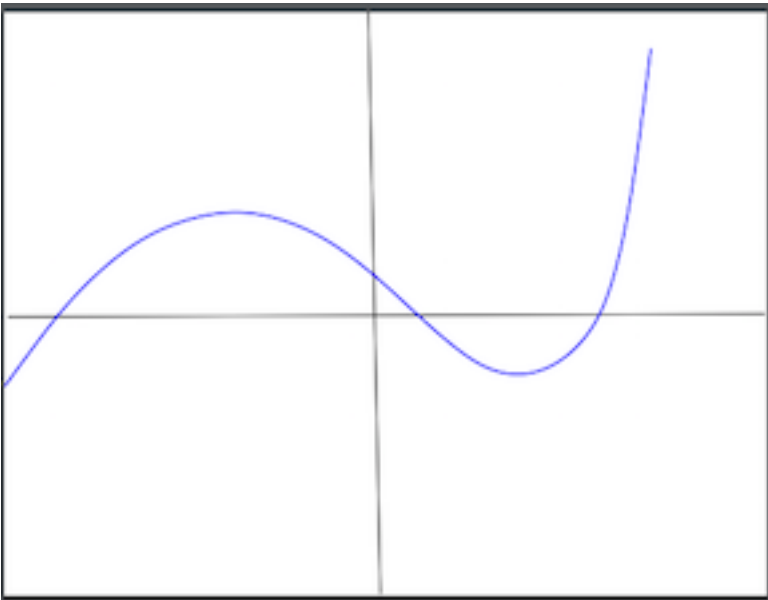   ✓ **Correct**

   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 point`

   ○ 3

   ○ Never

   ○ Always

   ◉ 2