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Practice quiz onTangent Lines to Functions

TOTAL DES POINTS 2

1. Suppose that $f : \mathbb{R} \rightarrow \mathbb{R}$ 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

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

☐ $f'(2) = mx + b$

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

☐ $f'(2) = 2$



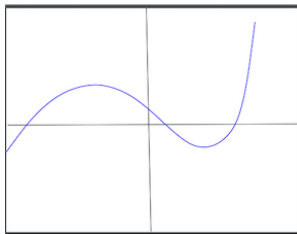
Correct

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

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2. Suppose that $h : \mathbb{R} \rightarrow \mathbb{R}$ 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



Correct

 $h'(a)$ gives the slope of the tangent line to the graph of h at the point $x = a$.When $h'(a) = 0$, this means that the tangent line is horizontal.There are two places (one on each side of the y -axis) where this tangent line is horizontal, so this answer is correct.

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