



## Practice quiz onTangent Lines to Functions

Practice Quiz • 10 min

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**Practice quiz onTangent Lines to Functions****Practice quiz onTangent Lines to Functions**

TOTAL POINTS 2

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1 / 1 point

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  $x = 2$ ?

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

☐  $f'(2) = 2$

☐  $f'(2) = mx + b$

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

**Correct**

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

