Your grade: 100%

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Next item →

1/1 point

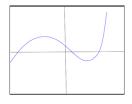
1/1 point

- 1. Suppose that $f:\mathbb{R} o\mathbb{R}$ 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?
 - $\bigcirc \ f'(2)=2$

 - $\bigcirc f'(2) = mx + b$
 - $\bigcirc \ f'(2) = \lim_{h o 0} rac{f(a+h) f(a)}{h}$

 $\ensuremath{\bigcirc}$ Correct This expression can be obtained from the first screen of our video by plugging in 2 for a.

2. Suppose that $h:\mathbb{R} o\mathbb{R}$ is a function whose graph is shown as the blue curve in the figure. For how many values of a is $h^\prime(a)=0$?



- \bigcirc 3
- O Never
- O Always
- 2

 \odot correct $h'(a) \ {\rm gives \ the \ slope \ of \ the \ tangent \ line \ to \ the \ graph \ of \ } h \ {\rm at \ the \ point} \ x=a.$

When $h^\prime(a)=0$, 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.