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R REUSSIR 75 % ou plus

TOTAL DES POINTS 2

Practice quiz on Tangent Lines to Functions

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?

1 / 1 point

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

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



- 0 3
- O Always

O Never

.

 \checkmark 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.