Practice quiznoni rangeint quizne son Functions





PARA APROBAR 75 % o más

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Practice quiz on Tangent Lines to Functions

PUNTOS TOTALES DE 2

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 puntos

$$f'(2) = 2$$

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

$$f'(2) = mx + b$$

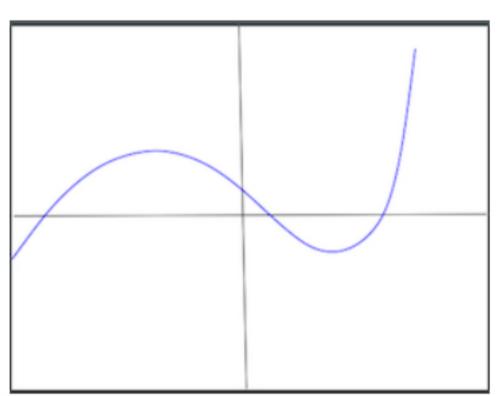
$$igotimes f'(2) = \lim_{h o 0} rac{f(2+h)-f(2)}{h}$$

✓ 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 puntos



- \bigcirc 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.