

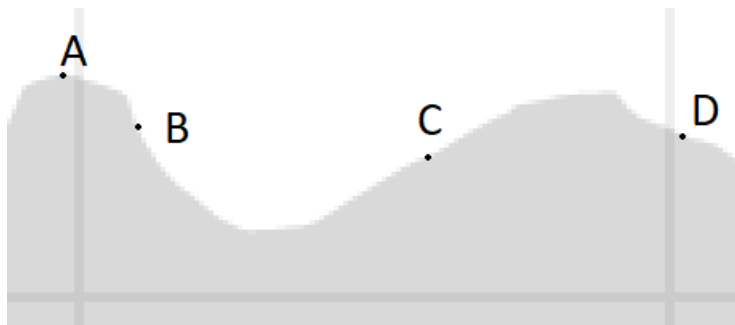
Limits and the Derivative

Math 102 Section 107

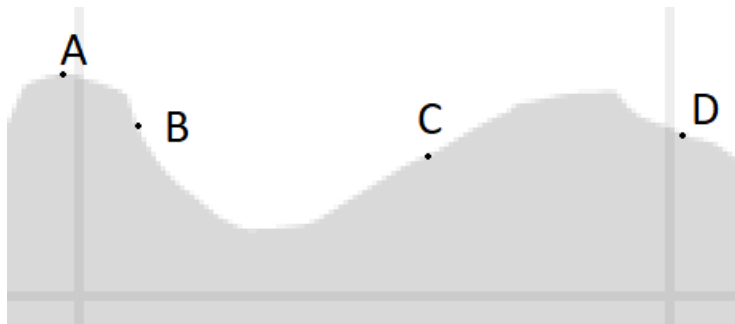
Krishanu Sankar

September 18, 2017

Geometric aspects of the derivative

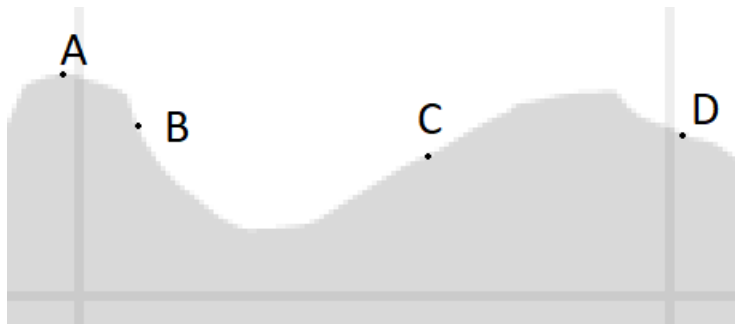


Geometric aspects of the derivative



Q1. At which point is the slope zero?

Geometric aspects of the derivative

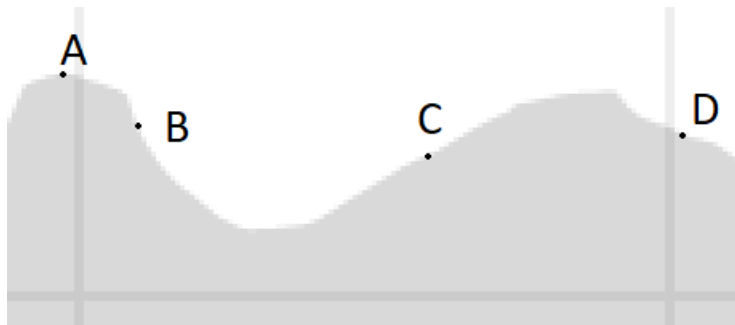


Q1. At which point is the slope zero?

Q2. At how many places on the graph is the slope zero?

- A. 1 B. 2 C. 3 D. 4 E. Don't know

Geometric aspects of the derivative



Q3. At which point does the slope have the greatest **absolute value**? (E. I'm confused)

Geometric aspects of the derivative

Q4. If $f'(a) = 0$, then $x = a$ is either a local maximum, or a local minimum.

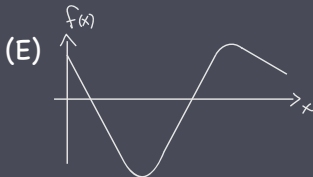
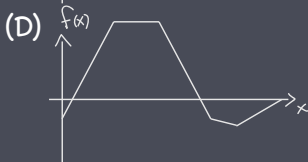
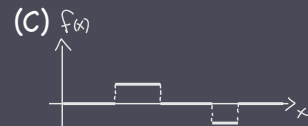
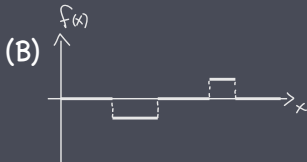
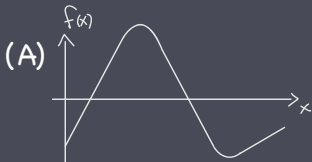
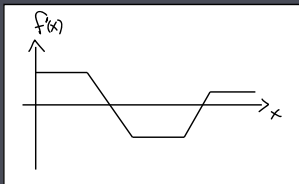
A. True

B. False

C. Other

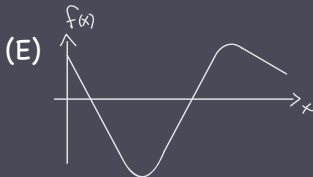
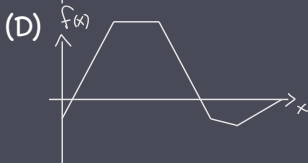
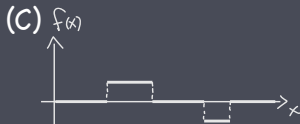
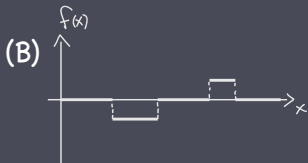
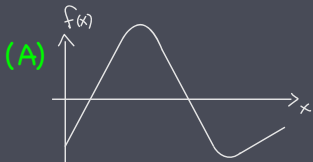
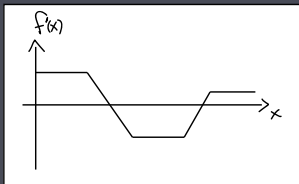
Geometric aspects of the derivative

Q5. Given $f'(x)$, sketch the original function.



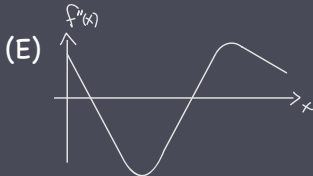
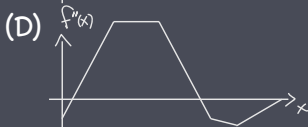
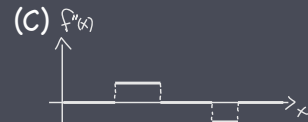
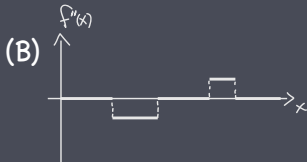
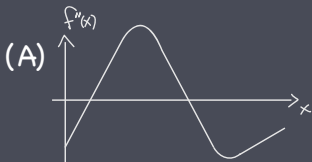
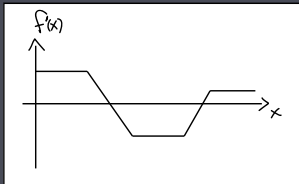
Geometric aspects of the derivative

Q5. Given $f'(x)$, sketch the original function.



Geometric aspects of the derivative

Q6. Given $f'(x)$, sketch the *second* derivative, $f''(x)$.



Geometric aspects of the derivative

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