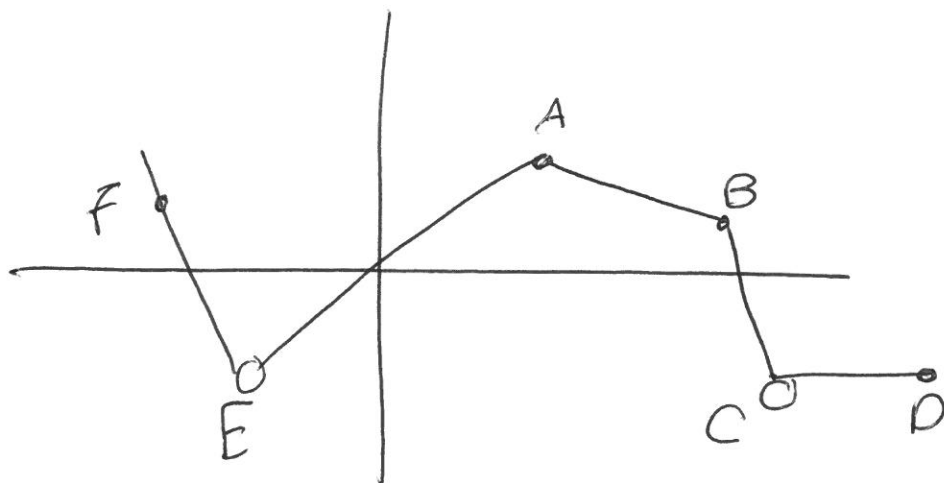


Topics Quiz



f graph

Point	Is it continuous?	Does limit exist?	Is it differentiable?	Name the slope (one, pos, neg)
A				
B				
C				
D				
E				
F				

Find a so $f(x)$ is continuous

$$1) f(x) = \begin{cases} x^2 + 4 & x < 1 \\ ax + 2 & x \geq 1 \end{cases}$$

$$2) f(x) = \begin{cases} 2ax + 3 & x < 2 \\ x^3 + 2 & x \geq 2 \end{cases}$$

Part 2

$$\textcircled{1} \int_0^6 x^2 e^{x^3} dx$$

$$\text{let } u = x^3$$

Switch all to x

Part 3

$$f(x) = \int_0^x x^3 + x^2 dx$$

$$f'(x) =$$

$$f''(x) =$$

critical
points =

point of
inflection \rightarrow

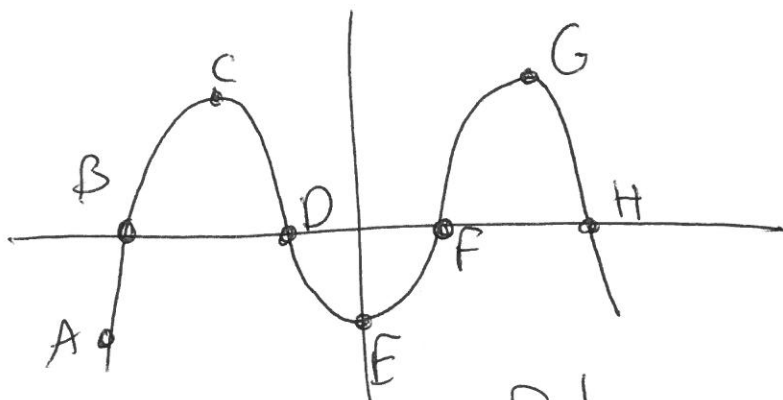
Part 3

1) $f(x) = x^2$ $[0, 4]$

Average
rate of
Change \rightarrow

Average
Value \rightarrow

Part 4



Point	f'	f''	f' rel max?	rel min?	inflect pt?
A					
B					
C					
D					
E					
F					
G					

