Test Booklet

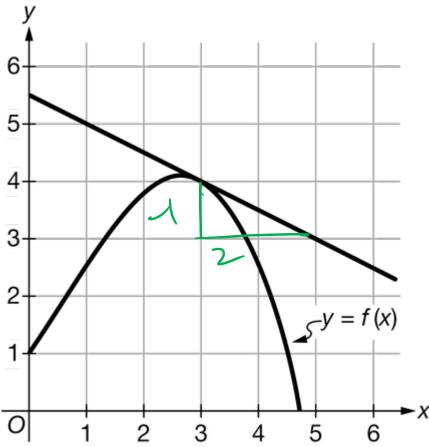
Selected values of a function g are shown in the table above. What is the average rate of change of g over the interval [-2,2]?



- 2. Let f be the function defined by $f(x) = 2\sin x + \cos x$. The average rate of change of f over the interval [0, b] is 0.05, where b > 0. Which of the following is an equation that could be used to find the value of b?
- $\widehat{\text{A}} f(b) = 0.05$
- (B) f(b) f(0) = 0.05
- $\bigcirc \frac{f(b) f(0)}{b 0} = 0.05$
- $\bigcirc \frac{f(b) + f(0)}{2} = 0.05$

Day 4 Wrap Up

3.



Shown above is the graph of the differentiable function f along with the line tangent to the graph of f at x = 3. What is the value of f'(3)?



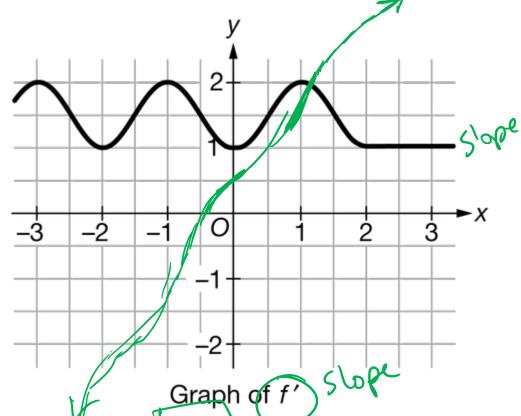
- (B) -2
- (C) 4

Day 4 Wrap Up

- An equation for the line tangent to the graph of the differentiable function f at x=3 is y=4x+6. Which of the following statements must be true?
 - 1. f(0) = 6
 - 2. f(3) = 183. f'(3) = 4
- None
- I and II only
- C) II and III only
 - I, II, and III

Which $\frac{-v \cdot v \cdot \text{ Which}}{\text{Fux}} = f(0) = 6$ $\frac{y - v \cdot \text{ Which}}{y - \text{ Fux}}$

5.

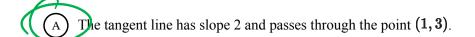


Let f be a differentiable function with f(1) = 3. The graph of f', the derivative of f, is shown above. Which of the following statements is true about the line tangent to the graph of f at x = 1?



AP Calculus AB Test Booklet

Day 4 Wrap Up



- The tangent line has slope 2 and passes through the point (1, 2).
- The tangent line has slope 0 and passes through the point (1,3).
- The tangent line has slope 0 and passes through the point (1, 2).