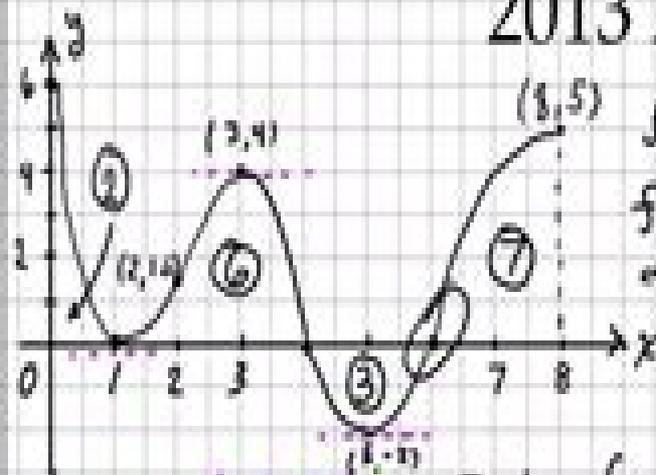


# 2013 AP Calculus AB FRQ 4



..... horizontal tangent line  
 ④ Area of shaded region

$f(8) = 4$   
 $f$  twice differentiable

(b) cont'd

$$f(6) = f(8) + \int_8^6 f'(x) dx$$

$$f(6) = 4 + -7 = \underline{\underline{-3}}$$

$f(8) = \underline{\underline{4}}$   
 The absolute min



local minimum (recognition)  
 derivative changes sign from '-' to '+'  
 absolute minimum (includes endpoints)

a) Because  $f'$  is represented in the graph, we look for places where it changes from '+' to '-' height, which occurs only at  $x=6$

↳ Absolute minimum on  $0 \leq x \leq 8$  occurs at endpoints or at  $x=6$

At  $x=0$

$$f(0) = f(8) + \int_8^0 f'(x) dx = 4 + -7 + 3 + -6 + -2$$

$$f(0) = \underline{\underline{-8}}$$

Chain rule

$$\frac{d}{dx} [f(g(x))] \text{ is } \frac{df(g(x))}{dg(x)} \cdot \frac{dg(x)}{dx}$$

# Calculus Ab Clue Problem Packet Answers

**CL Gary**



**Calculus Ab Clue Problem Packet Answers:**

The book delves into Calculus Ab Clue Problem Packet Answers. Calculus Ab Clue Problem Packet Answers is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Calculus Ab Clue Problem Packet Answers, encompassing both the fundamentals and more intricate discussions.

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