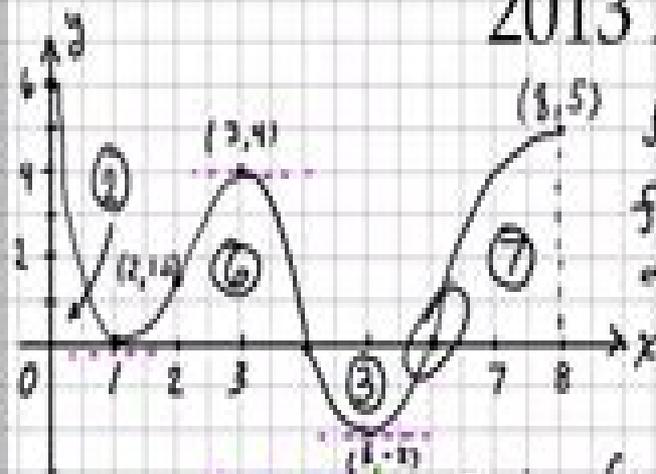


# 2013 AP Calculus AB FRQ 4



..... horizontal tangent line  
 ⑥ 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 (occurs at)  
 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

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

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**A Gutmann**



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