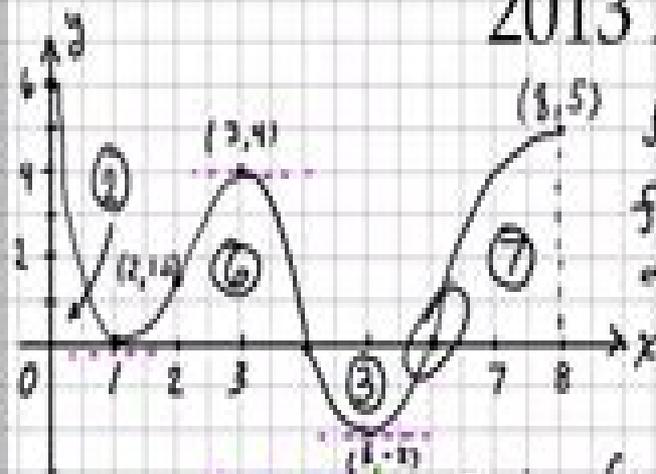


2013 AP Calculus AB FRQ 4



..... 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 (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

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

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