

2017 AP[®] CALCULUS AB FREE-RESPONSE QUESTIONS

3. The function f is differentiable on the closed interval $[-6, 5]$ and satisfies $f(-2) = 7$. The graph of f' , the derivative of f , consists of a semicircle and three line segments, as shown in the figure above.

- (c) Find the absolute minimum value of f on the closed interval $[-6, 5]$. Justify your answer.

Endpoints

Critical Numbers

Candidates : $x = -6, x = 5, x = -2, x = 2$

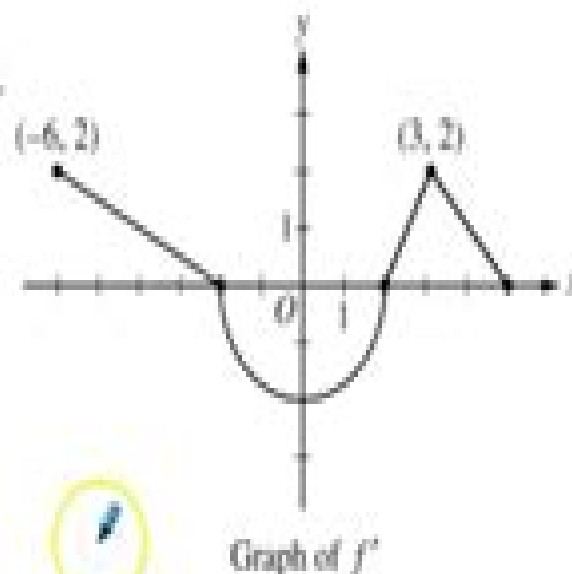
From A: $f(-6) = 3$

From A: $f(5) = 10 - 2\pi$

Given : $f(-2) = 7$

$$f(2) = 7 + \int_{-2}^2 f'(x) dx = 7 - \frac{1}{2} \pi (2)^2 = 7 - 2\pi$$

The absolute minimum value for $f(x)$ on $[-6, 5]$ is $\boxed{7 - 2\pi}$.



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