

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 $\boxed{7 - 2\pi}$.



Ap Calculus Sample Examination I Solutions

Jessica J Manson



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Table of Contents Ap Calculus Sample Examination I Solutions

1. Understanding the eBook Ap Calculus Sample Examination I Solutions
 - The Rise of Digital Reading Ap Calculus Sample Examination I Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Ap Calculus Sample Examination I Solutions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ap Calculus Sample Examination I Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Calculus Sample Examination I Solutions

- Personalized Recommendations
 - Ap Calculus Sample Examination I Solutions User Reviews and Ratings
 - Ap Calculus Sample Examination I Solutions and Bestseller Lists
5. Accessing Ap Calculus Sample Examination I Solutions Free and Paid eBooks
 - Ap Calculus Sample Examination I Solutions Public Domain eBooks
 - Ap Calculus Sample Examination I Solutions eBook Subscription Services
 - Ap Calculus Sample Examination I Solutions Budget-Friendly Options
 6. Navigating Ap Calculus Sample Examination I Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Ap Calculus Sample Examination I Solutions Compatibility with Devices
 - Ap Calculus Sample Examination I Solutions Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ap Calculus Sample Examination I Solutions
 - Highlighting and Note-Taking Ap Calculus Sample Examination I Solutions
 - Interactive Elements Ap Calculus Sample Examination I Solutions
 8. Staying Engaged with Ap Calculus Sample Examination I Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ap Calculus Sample Examination I Solutions
 9. Balancing eBooks and Physical Books Ap Calculus Sample Examination I Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ap Calculus Sample Examination I Solutions
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Ap Calculus Sample Examination I Solutions
 - Setting Reading Goals Ap Calculus Sample Examination I Solutions
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Ap Calculus Sample Examination I Solutions

- Fact-Checking eBook Content of Ap Calculus Sample Examination I Solutions
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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