

# AP Calculus AB

## Test- Limits and Continuity

1. The graph of which of the following equations has  $y = 1$  as an asymptote?

- (A)  $y = \cos x$  (B)  $y = e^x$  (C)  $y = \frac{x^3}{x^2+1}$   
 (D)  $y = \frac{x^2}{x^2-5}$  (E)  $y = -\ln x$

2. If  $\lim_{x \rightarrow a} f(x) = L$ , where  $L$  is a real number, which of the following must be true?

- I.  $f(a) = L$  II.  $\lim_{x \rightarrow a^+} f(x) = L$  III.  $\lim_{x \rightarrow a^-} f(x) = L$   
 (A) I only (B) I and II (C) I and III  
 (D) II and III (E) I, II, and III

3. If the graph of  $y = \frac{ax+b}{x+c}$  has a horizontal asymptote  $y = -2$ , a vertical asymptote  $x = 4$ , and an  $x$ -intercept of 1.5, then  $a - b + c =$

- (A) -3 (B) 1 (C) 5 (D) -9 (E) -1

4. Let  $f(x) = \begin{cases} e^x & , -\infty < x \leq 0 \\ |x-2| + k & , 0 < x < \infty \end{cases}$ . Find  $k$  so that  $f$  is continuous everywhere.

- (A) -1 (B) 0 (C) 1 (D) 2 (E)  $e$

5. If  $f(x) = \frac{1-x}{x-2}$ , then  $\lim_{x \rightarrow 2^-} f(x)$ , is

- (A)  $-\frac{1}{2}$  (B)  $\frac{1}{2}$  (C)  $-\infty$  (D)  $\infty$  (E) -1

6. On what interval *must* the function  $g(x) = 2x^2 + 7x - 1$  intersect the line  $y = 7$ ?

- (A)  $[-8, -6]$  (B)  $[-4, -1]$  (C)  $[0, 2]$  (D)  $[6, 9]$  (E)  $[4, 5]$

7.  $\lim_{x \rightarrow -\infty} \frac{2x+3}{\sqrt{x^2+x+1}}$  is

- (A) -2 (B) -1 (C) 0 (D) 2 (E) DNE

# Sample Examination Vi Ap Calculus

**Yijin Wang**



## **Sample Examination Vi Ap Calculus:**

## Reviewing **Sample Examination Vi Ap Calculus**: Unlocking the Spellbinding Force of Linguistics

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### **Table of Contents Sample Examination Vi Ap Calculus**

1. Understanding the eBook Sample Examination Vi Ap Calculus
  - The Rise of Digital Reading Sample Examination Vi Ap Calculus
  - Advantages of eBooks Over Traditional Books
2. Identifying Sample Examination Vi Ap Calculus
  - 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 Sample Examination Vi Ap Calculus
  - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Examination Vi Ap Calculus
  - Personalized Recommendations
  - Sample Examination Vi Ap Calculus User Reviews and Ratings
  - Sample Examination Vi Ap Calculus and Bestseller Lists

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