

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) ∞ (E) -1

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

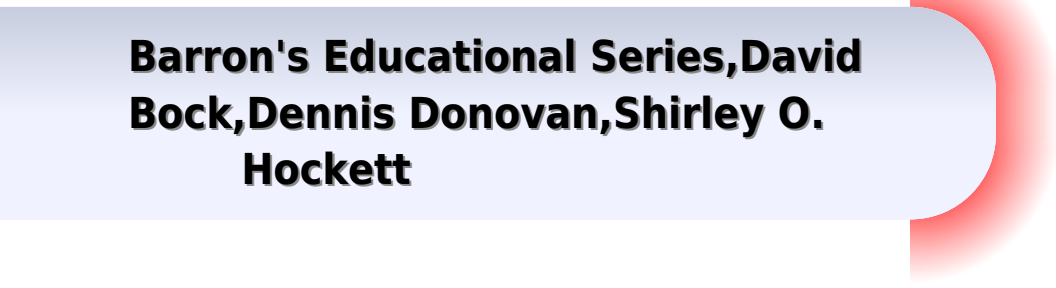
- (A) $[-8, -6]$ (B) $[-4, -1]$ (C) $[0, 2]$ (D) $[6, 9]$ (E) $[4, 5]$

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

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

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Table of Contents 20ap Calculus Ab Multiple Choice Answers

1. Understanding the eBook 20ap Calculus Ab Multiple Choice Answers
 - The Rise of Digital Reading 20ap Calculus Ab Multiple Choice Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying 20ap Calculus Ab Multiple Choice Answers
 - 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 20ap Calculus Ab Multiple Choice Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from 20ap Calculus Ab Multiple Choice Answers
 - Personalized Recommendations

- 20ap Calculus Ab Multiple Choice Answers User Reviews and Ratings
- 20ap Calculus Ab Multiple Choice Answers and Bestseller Lists
- 5. Accessing 20ap Calculus Ab Multiple Choice Answers Free and Paid eBooks
 - 20ap Calculus Ab Multiple Choice Answers Public Domain eBooks
 - 20ap Calculus Ab Multiple Choice Answers eBook Subscription Services
 - 20ap Calculus Ab Multiple Choice Answers Budget-Friendly Options
- 6. Navigating 20ap Calculus Ab Multiple Choice Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - 20ap Calculus Ab Multiple Choice Answers Compatibility with Devices
 - 20ap Calculus Ab Multiple Choice Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 20ap Calculus Ab Multiple Choice Answers
 - Highlighting and Note-Taking 20ap Calculus Ab Multiple Choice Answers
 - Interactive Elements 20ap Calculus Ab Multiple Choice Answers
- 8. Staying Engaged with 20ap Calculus Ab Multiple Choice Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 20ap Calculus Ab Multiple Choice Answers
- 9. Balancing eBooks and Physical Books 20ap Calculus Ab Multiple Choice Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 20ap Calculus Ab Multiple Choice Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 20ap Calculus Ab Multiple Choice Answers
 - Setting Reading Goals 20ap Calculus Ab Multiple Choice Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 20ap Calculus Ab Multiple Choice Answers
 - Fact-Checking eBook Content of 20ap Calculus Ab Multiple Choice Answers

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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