

# AP CALCULUS MULTIPLE CHOICE (LIMITS PT 1 #1-10)

(Hover mouse over question for answer click for detailed explanation)

1  $\lim_{x \rightarrow 0} \frac{2x^6 + 6x^3}{4x^5 + 3x^3}$  is (A) 0 (B)  $\frac{1}{2}$  (C) 1 (D) 2 (E) nonexistent

6  $\lim_{h \rightarrow 0} \frac{1}{h} \ln\left(\frac{2+h}{2}\right)$  is (A)  $e^2$  (B) 1 (C)  $\frac{1}{2}$  (D) 0 (E) nonexistent

2 The function  $f$  is defined above. For what value of  $k$ , if any, is  $f$  continuous at  $x = 2$ ?

$$f(x) = \begin{cases} x^2 - 3x + 9 & \text{for } x \leq 2 \\ kx + 1 & \text{for } x > 2 \end{cases}$$

(A) 1  
(B) 2  
(C) 3  
(D) 7  
(E) No value of  $k$  will make  $f$  continuous at  $x = 2$ .

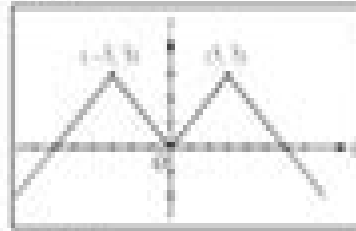
7  $\lim_{x \rightarrow 0} \frac{1 - \cos^2(2x)}{x^2} =$  (A) -2 (B) 0 (C) 1 (D) 2 (E) 4

The graph of the even function  $y = f(x)$  consists of 4 line segments. Which of the following statements about  $f$  is false?

3  $\lim_{h \rightarrow 0} \frac{e^{(2+h)} - e^2}{h} =$  [www.mathgotserved.com](http://www.mathgotserved.com)

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

8 (A)  $\lim_{x \rightarrow 0} (f(x) - f(0)) = 0$   
 (B)  $\lim_{x \rightarrow 0} \frac{f(x) - f(0)}{x} = 0$  (C)  $\lim_{x \rightarrow 1} \frac{f(x) - f(2)}{x - 2} = 1$   
 (D)  $\lim_{x \rightarrow 0} \frac{f(x) + f(-x)}{2x} = 0$  (E)  $\lim_{x \rightarrow 1} \frac{f(x) - f(3)}{x - 3}$  does not exist.



4 If  $\begin{cases} f(x) = \frac{\sqrt{2x+5} - \sqrt{x+7}}{x-2} \\ f(2) = k \end{cases}$

(A) 0 (B)  $\frac{1}{6}$  (C)  $\frac{1}{3}$  (D) 1 (E)  $\frac{7}{3}$

9  $\lim_{n \rightarrow \infty} \frac{4n^2}{n^2 + 10,000n}$  is (A) 0 (B)  $\frac{1}{2,500}$  (C) 1 (D) 4 (E) nonexistent

5 What is  $\lim_{h \rightarrow 0} \frac{8\left(\frac{1}{2} + h\right)^8 - 8\left(\frac{1}{2}\right)^8}{h}$ ?

(A) 0 (B)  $\frac{1}{3}$  (C) 1 (D) The limit does not exist  
 (E) It cannot be determined from the information given.

10 If  $f(x) = e^x$ , which of the following is equal to  $f'(e)$ ?

(A)  $\lim_{h \rightarrow 0} \frac{e^{e+h}}{h}$  (B)  $\lim_{h \rightarrow 0} \frac{e^{e+h} - e^e}{h}$  (C)  $\lim_{h \rightarrow 0} \frac{e^{e+h} - e}{h}$   
 (D)  $\lim_{h \rightarrow 0} \frac{e^{e+h} - 1}{h}$  (E)  $\lim_{h \rightarrow 0} \frac{e^{e+h} - e^e}{h}$

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# Section Multiple Choice Ap Calculus 2013

**Michael Brown**



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### **Table of Contents Section Multiple Choice Ap Calculus 2013**

1. Understanding the eBook Section Multiple Choice Ap Calculus 2013
  - The Rise of Digital Reading Section Multiple Choice Ap Calculus 2013
  - Advantages of eBooks Over Traditional Books
2. Identifying Section Multiple Choice Ap Calculus 2013
  - 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 Section Multiple Choice Ap Calculus 2013
  - User-Friendly Interface
4. Exploring eBook Recommendations from Section Multiple Choice Ap Calculus 2013
  - Personalized Recommendations
  - Section Multiple Choice Ap Calculus 2013 User Reviews and Ratings
  - Section Multiple Choice Ap Calculus 2013 and Bestseller Lists

5. Accessing Section Multiple Choice Ap Calculus 2013 Free and Paid eBooks
  - Section Multiple Choice Ap Calculus 2013 Public Domain eBooks
  - Section Multiple Choice Ap Calculus 2013 eBook Subscription Services
  - Section Multiple Choice Ap Calculus 2013 Budget-Friendly Options
6. Navigating Section Multiple Choice Ap Calculus 2013 eBook Formats
  - ePub, PDF, MOBI, and More
  - Section Multiple Choice Ap Calculus 2013 Compatibility with Devices
  - Section Multiple Choice Ap Calculus 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Section Multiple Choice Ap Calculus 2013
  - Highlighting and Note-Taking Section Multiple Choice Ap Calculus 2013
  - Interactive Elements Section Multiple Choice Ap Calculus 2013
8. Staying Engaged with Section Multiple Choice Ap Calculus 2013
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Section Multiple Choice Ap Calculus 2013
9. Balancing eBooks and Physical Books Section Multiple Choice Ap Calculus 2013
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Section Multiple Choice Ap Calculus 2013
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Section Multiple Choice Ap Calculus 2013
  - Setting Reading Goals Section Multiple Choice Ap Calculus 2013
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Section Multiple Choice Ap Calculus 2013
  - Fact-Checking eBook Content of Section Multiple Choice Ap Calculus 2013
  - 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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