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so many fake sites. this is the first one which worked! Many thanks

AP CALCULUS MULTIPLE CHOICE (LIMITS PT 1) (30)

(Please answer each question by clicking on the correct choice.)

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

2. The function f is defined above for the value of x of any x continuous on $[-1, 2]$. Which of the following is NOT a value of f on the interval $[-1, 2]$?

3. $\lim_{h \rightarrow 0} \frac{2^{h+1} - 2^h}{h}$ is (A) 0 (B) 1 (C) 2^2 (D) 2^3 (E) 2^4

4. If $f(x) = \frac{\sqrt{2x+3} - \sqrt{x+7}}{x-2}$ and $f(2) = 4$, then $\lim_{x \rightarrow 2} f(x)$ is (A) 0 (B) $\frac{1}{2}$ (C) $\frac{1}{4}$ (D) 1 (E) 2

5. What is $\lim_{h \rightarrow 0} \left(\frac{1}{2+h} - \frac{1}{2-h} \right)$? (A) $\frac{1}{2}$ (B) $\frac{1}{4}$ (C) 1 (D) 2 (E) It cannot be determined from the information given.

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

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

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

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

10. If $f(x) = e^x$, which of the following is equal to $f'(e)$? (A) $\lim_{h \rightarrow 0} \frac{e^{e+h} - e^e}{h}$ (B) $\lim_{h \rightarrow 0} \frac{e^{e+h} - e^e}{e+h}$ (C) $\lim_{h \rightarrow 0} \frac{e^{e+h} - e^e}{e}$ (D) $\lim_{h \rightarrow 0} \frac{e^{e+h} - e^e}{e+h}$ (E) $\lim_{h \rightarrow 0} \frac{e^{e+h} - e^e}{e}$

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