

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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