AP Calculus AB Practice Test Questions and Answers

1. What is d/dx [5^x]?

A) x · 5^(x−1)
B) 5^x
C) 5^x ln 5
D) 5^x / ln 5

2. What is d/dx [arctan(3x)]?

A) 3 / (1 + 3x²)
B) 1 / (1 + 9x²)
C) 9 / (1 + 9x²)
D) 3 / (1 + 9x²)

3. What is d/dx of √(3x² + 1)?

A) 6x / √(3x² + 1)
B) 1 / (2√(3x² + 1))
C) 3 / (2√(3x² + 1))
D) 3x / √(3x² + 1)

4. What is lim(x→3⁻) 2/(x − 3)?

A) −∞
B) +∞
C) 0
D) 2/3

Answers: 1-C 2-D 3-D 4-A

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