

AP Calculus Practice Exam

BC Version - Section I - Part B

Calculators ARE Permitted On This Portion Of The Exam
17 Questions - 50 Minutes

1) The limit of the sequence

$$a_n = \frac{1 + n^2}{(2n + 3 + 2 \ln(n))^2}$$

as n approaches ∞ is 5. What is the value of c ?

a) $4c$

b) $2c$

c) 15

d) $\frac{3}{4}$

e) $\frac{3}{4}$

2) If

$$\frac{dy}{dx} = 3xy^2$$

and $y = 3$ when $x = -2$, then what is y ?

a) $\frac{1 + x^{1/3} - 9}{x}$

b) $\frac{1 + x^{1/3}}{x}$

c) $\frac{1 + x^{1/3}}{x}$

d) $\frac{1 + x^{1/3} - 9}{x}$

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