

Quiz# 5

Name:

ID #:

Section:

Serial #:

Test each of the following for convergence (evaluate the convergent one(s)):

1. $\int_{e^e}^{\infty} \ln(\ln x) \, dx$

2. $\int_{-\infty}^{\infty} \frac{dx}{e^x + e^{-x}}$

$$3. a_n = \frac{1}{\sqrt{n^2-1}-\sqrt{n^2+n}}$$

$$4. a_n = \frac{1}{n} \int_1^n \frac{dx}{x}$$

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