

Quiz# 4

Name: _____

ID #: _____

Section 1

Serial #: _____

1. $\sum_{n=1}^{\infty} \left(-\frac{n}{5}\right)^n$ (converges / diverges) using _____ Test.

2. $\sum_{n=1}^{\infty} \frac{2 \cdot 4 \cdot 6 \cdot \dots \cdot (2n)}{n!}$ (converges / diverges) using _____ Test.

3. $\sum_{n=1}^{\infty} \frac{\cos\left(\frac{n\pi}{3}\right)}{n!}$ (converges / diverges) using _____ Test.

4. $\sum_{n=1}^{\infty} (-1)^n \frac{n}{\ln n}$ (converges / diverges) using _____ Test.

With My Best Wishes

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1. $\sum_{n=1}^{\infty} (-1)^n \frac{n^n}{n!}$ (converges / diverges) using _____ Test.

2. $\sum_{n=1}^{\infty} \frac{(-1)^n}{n \ln n}$ (converges / diverges) using _____ Test.

3. $\sum_{n=1}^{\infty} (\sqrt[n]{2} - 1)^n$ (converges / diverges) using _____ Test.

4. $\sum_{n=1}^{\infty} \frac{1}{n + n \cos^2 n}$ (converges / diverges) using _____ Test.

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