

Quiz# 5

Name: _____

ID #: _____

Section #: 2

Serial #: _____

1. $\left\{ \frac{\ln n}{\ln 2n} \right\}$ is (convergent / divergent), because _____.

1. $\left\{ \frac{(-1)^n n^3}{n^3 + 2n^2 + 1} \right\}$ is (convergent / divergent), because _____.

2. $\sum_{n=1}^{\infty} \ln \left(\frac{n}{2n+5} \right)$ is (convergent / divergent), using _____ Test.

2. $\sum_{n=1}^{\infty} (x-1)^n$, $1 < x < 2$ is (convergent / divergent), using _____ Test.

With My Best Wishes

Quiz# 5

Name: _____

ID #: _____

Section #: 6

Serial #: _____

1. $\left\{ \frac{(-1)^{n-1} n}{n^2 + 1} \right\}$ is (convergent / divergent), because _____.

2. $\sum_{n=1}^{\infty} \frac{1}{5 + n^2}$ is (convergent / divergent),
using _____ Test.

2. $\sum_{n=1}^{\infty} \frac{n}{n^2 + 1}$ is (convergent / divergent),
using _____ Test.

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

With My Best Wishes

Quiz# 5

Name: _____

ID #: _____

Section #: 15

Serial #: _____

1. $\left\{ \frac{e^n + e^{-n}}{e^{2n} - 1} \right\}$ is (convergent / divergent), because _____.

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

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

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

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