

Quiz# 4

Name: _____

ID #: _____

Section 24

Serial #: _____

1. $\int_{-2}^{\frac{1}{2}} \sqrt{2-x-x^2} dx$ is (proper / improper), because _____.

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

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

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Section 25

Serial #:

1. $\int_{-1}^4 \frac{1}{x^2 - 2x + 4} dx$ is (proper / improper), because_____.

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

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

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1. $\int_{\frac{7}{2}}^4 \frac{x^3 - 2}{\ln(4-x)} dx$ is (proper / improper), because_____.

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

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

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Section 13

Serial #:

1. $\int_{-3}^2 \frac{x}{\ln(3-x)} dx$ is (proper / improper), because_____.

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

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

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