

Name:

ID #:

Section 24

Serial #:

Test each of the following series for convergence or divergence:

1. $\sum_{k=1}^{\infty} \frac{k}{k^2 + 1}$.

2. $\sum_{k=1}^{\infty} \frac{1}{\sqrt[k]{e}}$

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Name:

ID #:

Section 6

Serial #:

Test each of the following series for convergence or divergence:

1.
$$\sum_{k=1}^{\infty} \left[\frac{1.4.7\dots(3k-2)}{1.3.5\dots(2k-1)} \right]$$

2.
$$\sum_{k=1}^{\infty} \frac{k}{k^{3/2} - 2}$$

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Name: _____

ID #: _____

Section 4

Serial #: _____

Test each of the following series for convergence or divergence:

1. $\sum_{k=1}^{\infty} \frac{k + \ln k}{k^4}$.

2. $\sum_{k=1}^{\infty} \frac{k^2 + 1}{\sqrt[3]{k^{10} + k + 3}}$.

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