

Name _____ Score _____ Teacher _____ Date _____

Infinite Series Convergence Tests

Name a valid convergence test, apply it with enough exact work, and state whether the series converges or diverges.

1. Determine convergence of sum from $n=1$ to infinity of $n!/4^n$. Name and apply a valid test.

2. Determine convergence of sum from $n=1$ to infinity of $n/(n+1)$. Name and apply a valid test.

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Name a valid convergence test, apply it with enough exact work, and state whether the series converges or diverges.

3. Determine convergence of sum from $n=1$ to infinity of $1/(n^2+1)$. Name and apply a valid test.

4. Determine convergence of sum from $n=1$ to infinity of $1/n^2$. Name and apply a valid test.

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Infinite Series Convergence Tests

Name a valid convergence test, apply it with enough exact work, and state whether the series converges or diverges.

5. Determine convergence of sum from $n=1$ to infinity of $3^n/n!$. Name and apply a valid test.

6. Determine convergence of sum from $n=1$ to infinity of $1/(n+1)$. Name and apply a valid test.
