

Name: _____

ID #: _____

Section: _____

Serial #: _____

1. $\sum \left(-\frac{n}{5}\right)^n$ is (Abs. conv. / Cond. Conv. / Div.) using _____ test.

2. $\sum \frac{2 \cdot 4 \cdot 6 \cdots (2n)}{n!}$ is (Abs. conv. / Cond. Conv. / Div.) using _____ test.

3. $\sum \frac{(\tan^{-1} n)^2}{n^2+1}$ (Abs. conv. / Cond. Conv. / Div.) using _____ test.

4. $\sum \frac{n}{b^n} (x - a)^n$ (Conv. / Div.) using _____ test.

With My Best Wishes

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1. $\sum (-1)^n \frac{n^n}{n!}$ is (Abs. conv. / Cond. Conv. / Div.) using _____ test.

2. $\sum \frac{(-1)^n}{n \ln n}$ is (Abs. conv. / Cond. Conv. / Div.) using _____ test.

3. $\sum \frac{1}{(3n-2)^{n+\frac{1}{2}}}$ (Abs. conv. / Cond. Conv. / Div.) using _____ test.

4. $\sum \frac{2 \cdot 4 \cdot 6 \cdots (2n)}{1 \cdot 3 \cdot 5 \cdots (2n-1)} x^n$ (Conv. / Div.) using _____ test.

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1. $\sum \frac{\cos\left(\frac{n\pi}{3}\right)}{n!}$ is (Abs. conv. / Cond. Conv. / Div.) using _____ test.

2. $\sum (-1)^n \frac{n}{\ln n}$ is (Abs. conv. / Cond. Conv. / Div.) using _____ test.

3. $\sum (-1)^n \tanh n$ (Abs. conv. / Cond. Conv. / Div.) using _____ test.

4. $\sum \frac{n(x-4)^n}{n^3+1}$ (Conv. / Div.) using _____ test.

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1. $\sum (\sqrt[n]{2} - 1)^n$ is (Abs. conv. / Cond. Conv. / Div.) using _____ test.

2. $\sum \frac{1}{n+n \cos^2 n}$ is (Abs. conv. / Cond. Conv. / Div.) using _____ test.

3. $1 + \frac{1}{4} - \frac{1}{9} - \frac{1}{16} + \frac{1}{25} + \frac{1}{36} - \frac{1}{49} - \frac{1}{64} + \dots$ (Abs. conv. / Cond. Conv. / Div.) using _____ test.

4. $\sum (-1)^n \frac{(2x+3)^n}{n \ln n}$ (Conv. / Div.) using _____ test.

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1. $\sum \left(\frac{-2n}{n+1}\right)^{3n}$ is (Abs. conv. / Cond. Conv. / Div.) using _____ test.

2. $\sum \frac{n \ln n}{2^n}$ is (Abs. conv. / Cond. Conv. / Div.) using _____ test.

3. $\sum \frac{e^{-n}}{n^4}$ (Abs. conv. / Cond. Conv. / Div.) using _____ test.

4. Find the value of x for which $\sum_0^\infty 4^n(3+x)^{-n}$ Converges to 2. $x = \underline{\quad}$ using _____ test.

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