

Quiz# 5

Name: \_\_\_\_\_

ID #: \_\_\_\_\_

Section 25

Serial #: \_\_\_\_\_

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Are the given series convergent or divergent? Explain in DETAIL.

1.  $\sum \frac{(\tan^{-1} n)^2}{n^2 + 1}$

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2.  $\sum \frac{1}{(3n - 2)^{n+1/2}}$

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Quiz# 5

Name: \_\_\_\_\_

ID #: \_\_\_\_\_

Section 11

Serial #: \_\_\_\_\_

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Are the given series convergent or divergent? Explain in DETAIL.

1.  $\sum \frac{n \ln n}{2^n}$

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2.  $1 + \frac{1}{4} - \frac{1}{9} - \frac{1}{16} + \frac{1}{25} + \frac{1}{36} - \frac{1}{49} - \frac{1}{64} + \dots$

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Quiz# 5

Name:

ID #:

Section 16

Serial #:

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Are the given series convergent or divergent? Explain in DETAIL.

1.  $\sum_{n=2}^{\infty} \frac{\log_n(n!)}{n^3}$

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2.  $\sum (-1)^n \tanh n$

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