

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

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

Section: 8

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

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1. Find the area of the surface generated by revolving the curve  $y = \sqrt{x+1}$ ,  $0 \leq x \leq 4$  about the  $x$ -axis.

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2.  $a_n = \left\{ n \tan\left(\frac{5}{n}\right) \right\}$  is (divergent / convergent to \_\_\_\_\_).

3.  $\sum_{k=2}^{\infty} \sqrt[k]{k}$  is (abs. conv. / cond. conv. / div.) using \_\_\_\_\_ test.

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4.  $\sum \frac{n}{n^4+1}$  is (abs. conv. / cond. conv. / div.) using \_\_\_\_\_ test.

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5.  $\sum \frac{\log_n n!}{n^4}$  is (abs. conv. / cond. conv. / div.) using \_\_\_\_\_ test.

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Name:

Quiz 5  
ID #:

Section: 18    Serial #:

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1.  $b_n = \left\{ \frac{\ln 2n^2}{\ln 3n} \right\}$  is (divergent / convergent to \_\_\_\_\_)

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2.  $c_n = \left\{ -\frac{1}{3}, \frac{2}{9}, -\frac{4}{27}, \frac{8}{81}, \dots \right\}$  is (divergent / convergent to \_\_\_\_\_)

3.  $\sum \left( \cos \frac{\pi}{\sqrt{n}} - \cos \frac{\pi}{\sqrt{n+1}} \right)$  is (abs. conv. / cond. conv. / div.) using \_\_\_\_\_ test.

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4.  $\sum_{m=2}^{\infty} \frac{m-5}{m^2-2m+3}$  is (abs. conv. / cond. conv. / div.) using \_\_\_\_\_ test.

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5.  $\sum_{k=0}^{\infty} \frac{(-1)^{2k}}{k!}$  is (abs. conv. / cond. conv. / div.) using \_\_\_\_\_ test.

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