

Integral Test Worksheet

Thomas R. Cameron

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1 Exercises

I. Use the integral test to determine the convergence/divergence of the following series

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

b. $\sum_{k=2}^{\infty} \frac{1}{k \ln(k)}$

c. $\sum_{k=1}^{\infty} \frac{k}{e^k}$