

Math 102 (Semester 102)
Quiz Two

Name: _____

ID Num: _____

Serial Number: _____

Decide if the following series converge or diverge. If they converge, decide if they converge *conditionally* or *absolutely*. If you can calculate the sum, then do so. State what tests you use and show all your working. You can use the back of the page if necessary.

1. $\sum_{n=1}^{\infty} \frac{n^2 + \ln(n)}{n^3 + \sqrt{n}}$

2. $\sum_{n=0}^{\infty} (.75)^{2n+1}$

3. $\sum_{n=2}^{\infty} \frac{n}{\ln(n)}$

4. $\sum_{n=1}^{\infty} \frac{(-2)^n}{n^n}$