

Name: _____
MAT 296

Quiz 12: Series Tests
Fall 2017

Problem 1: Determine whether the following series converges or diverges. Be sure to prove your answer.

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

Problem 2: Determine whether the following series converges conditionally, converges absolutely, or diverges. Be sure to justify your answer completely.

$$\sum_{n=0}^{\infty} \frac{(-1)^n n}{n^2 + 4}$$