Math 1	.02		
Spring	2014,	Term	132

Quiz 5 Section 16

Name:		
Student ID:		

Serial Number:

## **Instructions:** Show Your Work!

Which of the following series converge absolutely, which converge, and which diverge? Give reasons for your answers.

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

$$\sum_{n=1}^{\infty} \frac{1}{1 + \ln n}$$

$$\sum_{n=1}^{\infty} \left( 1 + \frac{1}{n} \right)^n$$

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