

MA 126-02
§8.3-8.5

Quiz #5

score

Name: _____

14 July 2000

1. Determine if the following series converge absolutely, converge conditionally, or diverge. Explain your reasoning. (12 points)

(a) $\sum_{n=1}^{\infty} \frac{\sin n}{n^2}$

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

-
2. Find the interval of convergence for the power series $\sum_{n=0}^{\infty} \frac{x^n}{(n+1)(n+2)}$. (8 points)