

Calculus II. Quiz 7. Name \_\_\_\_\_ Time \_\_\_\_\_

Show all work for full or partial credit. Put a box around your final answer in each part.

1. For each series, what does the ratio test tell us? [converge absolutely, diverge, or inconclusive]. Show your work by finding the limit.

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

(b)  $\sum_{n=1}^{\infty} \frac{2^{(n^2)}}{n!}$