

Answer the questions in the spaces provided. If you run out of room for an answer, continue on the back of the page.

Student's Name: \_\_\_\_\_

Instructor's name: \_\_\_\_\_

Do the following series converge or diverge?

1.

$$\sum_{n=1}^{\infty} \frac{3^{1-2n}}{n^2 + 1}$$