

Name: _____

Score: _____

1. (a) State the integral test. (2 points)

(b) State the ratio test. (2 points)

2. Determine whether each of the following series converges or diverges. (3 points each) Do each question using a second method for bonus 1 point.

(a) $\sum_{n=1}^{\infty} ne^{-n^2}$

$$(b) \sum_{n=1}^{\infty} \frac{(-2)^n}{n3^n}$$