

9.3 The Integral Test and p -Series

Name:

Date: July 22, 2015

P 2. Determine if the series converges or diverges.

$$\sum_{n=1}^{\infty} \frac{2}{3n+5}$$

P 4. Determine if the series converges or diverges.

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

P 6. Determine if the series converges or diverges.

$$\sum_{n=1}^{\infty} ne^{-n/2}$$

P 14. Determine if the series converges or diverges.

$$\sum_{n=2}^{\infty} \frac{\ln n}{n^3}$$

P 22. Determine if the series converges or diverges.

$$\sum_{n=1}^{\infty} \frac{n}{n^4 + 2n^2 + 1}$$

P 74. Determine if the series converges or diverges.

$$3 \sum_{n=1}^{\infty} \frac{1}{n^{0.95}}$$

P 79. Determine if the series converges or diverges.

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

P 80. Determine if the series converges or diverges.

$$\sum_{n=2}^{\infty} \ln n$$