

## 9.4 Comparisons of Series

Name:

Date: July 27, 2015

**P 4.** Determine if the series converges or diverges.

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

**P 8.** Determine if the series converges or diverges.

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

**P 11.** Determine if the series converges or diverges.

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

**P 12.** Determine if the series converges or diverges.

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

**P 14.** Determine if the series converges or diverges.

$$\sum_{n=1}^{\infty} \frac{5}{4^n + 1}$$

**P 17.** Determine if the series converges or diverges.

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

**P 22.** Determine if the series converges or diverges.

$$\sum_{n=1}^{\infty} \sin \frac{1}{n}$$