

Name _____

Homework 13
section 9.3

Determine whether the integral test can be used to determine the convergence or divergence of the following series. If it can be used, use it to determine the convergence or divergence. If the integral test can not be used, explain why.

1. (5) $\sum_{n=1}^{\infty} \frac{4}{(2n+1)^3}$

$$2. \quad (5) \quad \sum_{n=1}^{\infty} \frac{\cos n}{n}$$

$$3. \quad (5) \quad \sum_{n=3}^{\infty} \frac{2}{\sqrt{n-2}}$$

$$4. \quad (5) \quad \sum_{n=2}^{\infty} 6n^2 e^{-n^3}$$