

Name _____

Homework 13
Sections 9.2 & 9.3

1. (5) Compute the exact sum of $6 + 12 + 36 + 18 + 9 + \frac{9}{2} + \dots$. *Be a little careful.*

For number 2–4, determine whether each series converges or diverges (using material up to section 9.3).

2. (5)
$$\sum_{n=0}^{\infty} \frac{4}{(2n+1)^3}$$

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

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