Math 2260 Quiz 16

Name _____

Points will be deducted for untidy or disorganized answers

- 1. Determine which of the follow series converge, and which diverge. Give reasons for your answer.
 - (a) (1 point)

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

(b) (1 point)
$$\sum_{n=1}^{\infty} \frac{1 + n^2 \ln n}{2n^3 - 1}$$

$$\sum_{n=1}^{\infty} \frac{(1+n^3)^{1/3}}{n}$$

(d) (2 points)

(c) (1 point)

$$\sum_{n=1}^{\infty} \frac{(\ln n)^2}{n^3}$$

(e) (Bonus points)

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