

Math 2260 Quiz 16

Name _____

Points will be deducted for untidy or disorganized answers

1. (5 points) Determine which of the follow series converge, and which diverge. Give reasons for your answer.

(a)

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

(b)

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

(c)

$$\sum_{n=1}^{\infty} \frac{10^n}{n!}$$

(d)

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