

MA 2733

Worksheet 3 – November 12, 2012

Name _____

1. (a) Discuss convergence of $\sum_{n=1}^{\infty} (-1)^n \sqrt{\frac{n^2 - 1}{n^5 + 1}}$. If it converges, does it converge absolutely or conditionally?

(b) Discuss convergence of $\sum_{n=1}^{\infty} \frac{-n^4 e^n}{3^n}$. If it converges, does it converge absolutely or conditionally?

2. For which values of x does the series $\sum_{n=1}^{\infty} \frac{x^n}{n e^n}$ converge?