

MA 2733

Worksheet 4 – October 4, 2016

Name _____

1. Discuss convergence of $\sum_{n=0}^{\infty} \frac{(-1)^n}{n^2 + \sqrt{2}}$.

2. Discuss convergence of $\sum_{n=21}^{\infty} \frac{\cos(\frac{\pi}{4} \cdot n)}{n^2}$.

3. Discuss convergence of $\sum_{n=1}^{\infty} \frac{(-1)^n}{n - \sqrt{n} - 10}$.

4. Discuss convergence of $\sum_{n=1}^{\infty} \frac{\cos n + 2 \sin n}{n + 2^n}$.

5. Discuss convergence of $\sum_{n=1}^{\infty} \frac{\cos(\pi n)}{n}$.