King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math 102 (181) Sec 02 - Quiz 4

Name: ID: Serial No.:

1. Determine whether the series $\sum_{n=1}^{\infty} \frac{1+2^n}{3^n}$ is convergent or divergent. If it is convergent, then find its sum.

2. Determine whether the series $\sum_{n=2}^{\infty} \frac{e^{1/n}}{n^2}$ is convergent or divergent.

3. Determine whether the series $\sum_{n=1}^{\infty} \dfrac{\sqrt{n^4+1}}{n^3+n^2}$ is convergent or divergent.

4. Determine whether the series $\sum_{n=1}^{\infty} (-1)^n \dfrac{n}{\sqrt{n^3+2}}$ is convergent or divergent.