King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math 102 (181) Sec 10 - Quiz 4

Name: ID: Serial No.:

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

2. Determine whether the series $\sum_{n=2}^{\infty} \dfrac{1}{n(\ln n)}$ is convergent or divergent.

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

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