

King Fahd University of Petroleum & Minerals

Department of Mathematics and Statistics

Math 102 , Quiz # 5, Semester 191

Name:

serial #

Student ID#:

Q. 1 Determine whether the following series are convergent or divergent (10 pts.)

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

b)
$$\sum_{k=1}^{\infty} \frac{(2k - 1)(k^2 - 1)}{(k + 1)(k^2 + 4)^2}$$