

King Fahd University of Petroleum & Minerals
Department of Mathematics and Statistics
(Semester 142) Math 102.12 Quiz # 5

Name: _____ I.D. # _____ Sr. # _____

1. Determine whether the series $\sum_{n=1}^{\infty} \frac{6}{(2n-1)(2n+1)}$ converges or diverges.
2. Express $0.dddd\dots$, where d is a digit, as the ratio of two integers.

King Fahd University of Petroleum & Minerals
Department of Mathematics and Statistics
(Semester 142) Math 102.14 Quiz # 5

Name: _____ I.D. # _____ Sr. # _____

1. Express $1.24\overline{123}$ as the ratio of two integers.
2. Determine whether the series $\sum_{n=1}^{\infty} \ln \sqrt{\frac{n+1}{n}}$ converges or diverges.