King **F**ahd **U**niversity for **P**etroleum and **M**inerals
Department of Mathematics & Statistics
Term 151 Math 102 (7) Quiz#5 (10.1, and 10.2)
Family Name: S.r#

Q1. Determine whether $\left\{\frac{\sqrt{n}\sin(n!\cdot e^n)}{n+1}\right\}$ converges or diverges. If it converges find its limit

Q2. Determine if $\sum \frac{1}{n^2+3n+2}$ converges or diverges. If it converges find its sum

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Q1. Determine whether $\left\{\left(\frac{1}{n}\right)^{\frac{1}{\ln n}}\right\}$ converges or diverges. If it converges find its limit

Q2. Determine if $\sum \frac{2}{4n^2-1}$ converges or diverges. If it converges find its sum