

Advanced Calculus: 15-Minute Quiz 05

Name : _____ Student ID # : _____ Score : _____

1. Find the sum of the series $\sum_{n=1}^{\infty} \frac{1}{n(n+1)(n+2)}$.

2. Does the series $\sum_n \sqrt{a_n a_{n+1}}$ converge, if $\sum_n a_n$ converges and $a_n \geq 0$?

3. For which p , does the series $\sum_n \frac{1}{(\log n)^p}$ converge?