

December 5, 2019

QUIZ#5 Math102-sec 8.

Net Time Allowed: 20 minutes

Name:

ID # :

Serial #:

(Justify clearly your answer!)

Exercise1:(04 points)

For what value(s) of q the series $\sum_{n=1}^{\infty} \frac{n^3}{(n^2 + n)^q}$ converges.

Exercise2:(06 points) Test the following series:

a)- $\sum_{n=1}^{\infty} \ln\left(\frac{2n+1}{3n-1}\right)$ b)- $\sum_{n=0}^{\infty} (-1)^n \frac{10^n}{(n+1)!}$