May 14,2017

QUIZ♯4 Math102-sec14.

Net Time Allowed: 25 minutes

Name: **ID ♯ :** **Serial ♯:**

Exercise1:(06 points) Determine whether the series is convergent or divergent. If it is convergent, find its sum:

a)- $\sum_{n=1}^{\infty} n \sin(\frac{1}{n})$

b)- $\sum_{n=1}^{\infty} \frac{(-2)^n}{3^n}$

Exercise2:(04 points) Test the series $\sum_{n=1}^{\infty} \frac{5-\sqrt{n}}{n^3}$.

Exercise3:(05 points) Test the series $\sum_{n=1}^{\infty} \frac{2}{(n+1)(n+3)}$. If it is convergent, find its sum.