

QUIZ#3 Math102, sec 30Net Time Allowed: 15 minutes

Name:

ID # :

section:

Exercise1:

Determine whether the following series converges or diverges. Justify your answer.

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

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

solution:Exercise2:Test the Series $\sum_{n=1}^{\infty} \frac{\sin(\frac{n}{3})}{3^n}$ for convergence or divergence. Justify clearly your answer !**solution:**