QUIZ♯4   Math102- Sec 9

Net Time Allowed: 25 minutes

Name: **ID ♯ :**   **Serial ♯:**

(**Justify clearly your answer !**)

Exercise1:(05 points)

Test the series $\displaystyle\sum_{n=1}^{\infty}(-1)^{n+1}\,\frac{n+2}{n^2+\sqrt{n}}$

Exercise2:(05 points)   Determine whether or not the series $\displaystyle\sum_{n=1}^{\infty}(-1)^{n+1}\,\frac{e^{-2\,n}}{2^{n-2}}$

converges. If it is convergent, find it's sum.

***Exercise3:(05 points)   Test the series $\displaystyle\sum_{n=1}^{\infty}\left(\frac{1}{4}\right)^{\frac{1}{n^4}}$