



4<sup>th</sup> Quiz

Student Name in Arabic:

B.N<sup>o</sup> Section:

1- Find interval of convergence for the following series:

$$\frac{1}{1.6}x^2 + \frac{2}{6(20)}x^4 + \frac{6}{20(252)}x^6 + \dots$$

2- Find Envelope of  $f(x, y, t) = \frac{x}{t} + \frac{y}{1-t} = 1$ ,  $t$  is the parameter

3- Find the dimensions of the rectangular box with the largest volume if the total surface area is  $64 \text{ cm}^2$ .