**Faculty of Engineering (Shoubra)**
**Engineering Mathematics and**
**Physics Department**

**Benha University**
**Mechanical Department**
**1$^{st}$ year Power**
**Time allowed:20 Minutes**

**1$^{st}$ Quiz**

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**Student Name in Arabic:**                                    **Section:**

Find the first four terms in each portion of the series solution for the differential equation y`` - xy`+ y = x.

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Find the first four terms in each portion of the series solution for the differential equation y`` - xy = x+4.

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Find the first four terms in each portion of the series solution for the differential equation $(1+x^2)$y``+ y = x.

Dr. khaled Elnaggar