

Faculty of Engineering (Shoubra)  
Engineering Mathematics and  
Physics Department



Benha University  
Mechanical Department  
1<sup>st</sup> year Production  
Time allowed:10 Minutes

### 1<sup>st</sup> Quiz

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Student Name in Arabic:

Section:

$$\sum_{n=2}^{\infty} \frac{\ln(n)}{n}$$

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

$$\sum_{n=1}^{\infty} \frac{1}{4^{2n+1}(n+1)}$$

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Section:

$$\sum_{n=1}^{\infty} n e^{n^2}$$

$$\sum_{n=1}^{\infty} \left[ \frac{2n^2+1}{n^2+1} \right]^n$$

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