

Taylor Series Revisited: Introduction



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$$f(\underline{x+h}) = \underline{f(x)} + \underline{f'(x)}h + \frac{\underline{f''(x)}}{2!}h^2 + \frac{\underline{f'''(x)}}{3!}h^3 + \dots$$

1) Calculate transcendental functions.

$$\underline{e^x} = 1 + x + \frac{x^2}{2!} + \frac{x^3}{3!} + \dots$$

2) Derive numerical methods

3) Finding accuracy of numerical methods.

END



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Acknowledgement

This instructional resource is brought to you by
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This material is based upon work supported by the National Science Foundation under Grant #2013271 (Transforming Undergraduate Engineering Education through Adaptive Learning and Student Data Analytics). Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.





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