Spring 2021: Chapter 2 Errors Numerical Differentiation

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Hi Autar, when you submit this form, the owner will be able to see your name and email address.

1. What is the highest order of a polynomial for which the central-divided-difference approximation of the first derivative will give the exact answer at any point?

○ 0

○ 1

○ 2

○ 3

2. Using the central divided difference, the true error in the calculation of a derivative of a function is 32.0 for a step size of 4. If the step size is reduced to 1, the true error will be approximately

    Enter your answer

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