

Numerical Analysis and Programming

Problem Set #11 Due: May 26

1. Implement a module called `differentiate.py`, in which the $O(h^2)$ approximation formulas are implemented. Also in the module, implement Richardson's extrapolation for the central difference approximation.

Hand-In Procedure

1. Save your code as `py11.py`. Do not ignore this step or save your file(s) with different names.

2. Time and Collaboration Info

At the start of each file, in a comment, write down the number of hours (roughly) you spent on the problems in that part, and the names of the people you collaborated with. For example:

```
# Problem Set 11
# Name: Ying-Jer Kao
# Collaborators: Alice Lee
# Time: 3:30
#
... your code goes here ...
```

3. Upload to Ceiba.

Note: Discussions are strongly encouraged, but **no copying** is allowed. All parties involved in copying will get **zero** for their homework.