140415

CS345-040 Armando M. Howard

Homework#6

Due Friday May 6

In “Introduction to Computational Science”

By Angela B. Shiflet

and George W. Shiflet

read Chapter 4.

In notes “VII difference equations”, which are posted on Blackboard, answer questions 1,2,3 on slide 10 and questions 4,5,6 on slide 13.

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Homework#7

Also Due Friday May 6

Modify expdecaya.m to create programs which run the second, “backward”, and third, ‘centered’, schemes as described in questions 4,5 on slide 13.

Run them and the original with 3s, 30s and 300s timesteps to make proportional error graphs. Comment on how they compare.

Enjoy your spring break!