

COMPUTER SCIENCE 20, SPRING 2012
DISCRETE MATHEMATICS FOR COMPUTER SCIENCE

Class #30 (Recurrence)

Homework, due in hard copy Monday 4/23/2012 at 10:10am

Please write your TF's name on your homework, and list the names of any students with whom you collaborated. Find functions fitting the following recurrences, and prove your answers by induction.

1. $f(1) = 5, f(n) = f(n - 1) + 2$

2. $g(1) = 1, g(n) = g(n/2) + n/2$