EECS210 Written HW#8 Due: 12-5-17

1. (15) Given a function f(n) defined by:

$$f(1) = 1$$
,

$$f(2) = 5$$
,

$$f(n) = 2f(n-1) - f(n-2)$$
, n is an integer > 2.

Find a solution for f(n) and then prove it by using strong induction as discussed in class.

- 2. (21) Do Problem 32(a)-(g) on Page 397. You must give integer solution and show your calculation clearly for credit.
- 3. (12) Do Problem 46 on Page 397. You must show your calculation clearly for credit.
- 4. (6) Do Problem 4 on Page 405. You must show your calculation clearly for credit.
- 5. (10) Do Problem 14 on Page 405. You must show your calculation clearly for credit.
- 6. (12) Do Problem 18 on Page 413. You must show your calculation clearly for credit.
- 7. (24) Do Problem 22 on Page 414. You must show your calculation clearly for credit.