

Reading: The week of Mon. 3/28 will cover functions and some of summations. This problem set parallels Prof. Rapaport's HW8 and part of HW9.

- (1) Rosen, page 120, problem 30. note that you need to do more than just give one counterexample. (6 pts.)
- (2) Rosen, page 120, problem 34(b,c,d). (9 pts.)
- (3) Rosen, page 131, problem 18(a,b) and 20. ($6+6+15 = 27$ pts.)
- (4) Rosen, page 131, problem 28. ($3+3+3=9$ pts.)
- (5) Rosen, page 131, problem 48(a,b). Show your work, i.e., give reasoning as well as a "college answer." ($6+6 = 12$ pts.)
- (6) Rosen, page 147, problem 14(c,e). ($6+3 = 9$ pts.)
- (7) Rosen, page 147, problem 22 (6 pts., mainly just understanding what the terms mean—really "increasing" should be "non-decreasing")
- (8) Rosen, page 147, problem 30 (12 pts., for 90 on the set).