

Assignment 6

Due date is: Dec. 4.

There are 3 problems in this assignment. The total points is 100 points.

- (30pt.) p. 375. Exercises (10.4), 1
- (30pt.) Show that INDEPENDENT SET remains **NP**-complete even in the special case when all the nodes in the graph have degree at most 4.
- (40pt.) Construct a reduction from SAT to 3SAT, i.e., Prove SAT reduces to 3SAT.