

# Applied Convex Optimization, EE4530, 2015

## Homework Set 4

**Exercise 1.** [2pt.]

Solve Exercise 5.1(a,b,c) of Boyd, Vandenberghe, CO.

**Exercise 2.** [2pt.]

Solve Exercise 5.13 of Boyd, Vandenberghe, CO.

**Exercise 3.** [2pt.]

Solve Exercise 5.21 of Boyd, Vandenberghe, CO.

**Exercise 4.** [2pt.]

Solve Exercise 5.26 of Boyd, Vandenberghe, CO. In addition, (*Matlab*), check the analytical results with Yalmip or CVX, and *fmincon*.

**Exercise 5.** [2pt.]

Solve Exercise 5.27 of Boyd, Vandenberghe, CO. In addition, (*Matlab*), check the analytical results with Yalmip or CVX, and *fmincon*.