Exercise for the lecture

Algorithms for Radio Networks

Winter 2013/14

Sheet 4

EXERCISE 1:

1. **Steiner Trees**

Consider the right undirected weighted graph $G(V, E)$. The green vertices are the terminals (sources and destinations).

- Compute a Steiner tree using the algorithm based on the MST from the lecture?
- How many Steiner points are formed?
- Is the solution optimal?

2. **Life Time Maximization**

Consider the left sensor network. Find optimal the solutions for

- Disjoint Set Cover
- Connected-Disjoint Set Cover