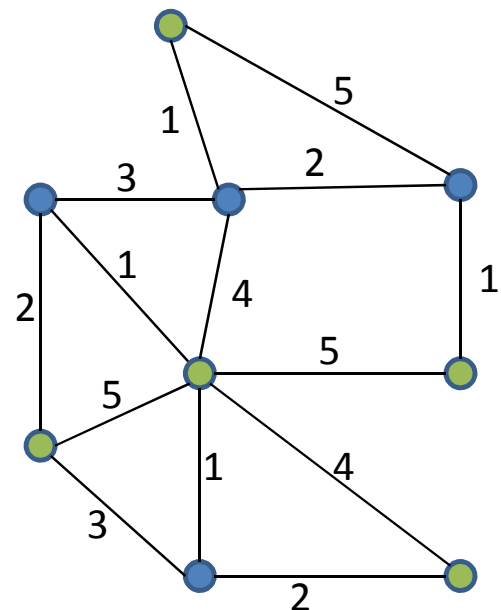
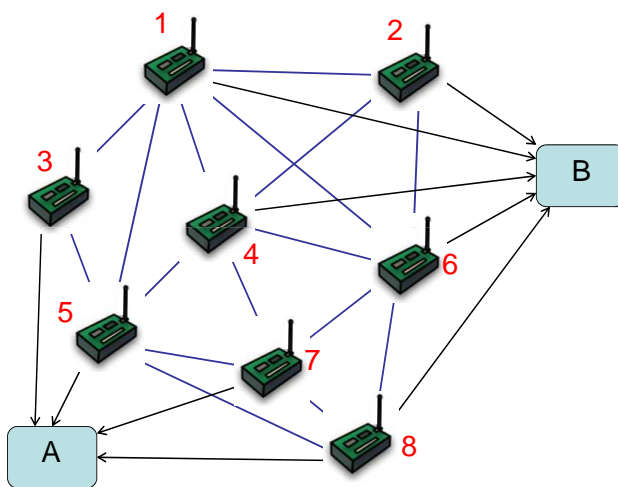


Exercise for the lecture  
**Algorithms for Radio Networks**  
 Winter 2013/14  
 Sheet 4

**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