

## Homework 3

Simon Zheng  
260744353

November 3<sup>rd</sup>, 2017

**1**

Include all leaves first then 2-colour the rest and keep the biggest set.

**2**

Same proof as in class.

**3**

?

**4**

?

**5**

Graph, edge weight is distance, put edges in matrix and sort.

**6**

Hybrid reverse Prim's/Dijkstra's algorithm except don't remove vertices in F.