

## IT252 Homework 8

**Problem 1.** Consider an undirected graph  $G$  which might have negative weighted edges. Can  $G$  have an MST, and if so, will Kruskal's/Prim's algorithm find it? Give reasons for your answer.

**Problem 2.** [KT] Chapter 4. Exercise 3.

**Problem 3.** [KT] Chapter 4. Exercise 4.

**Problem 4.** [KT] Chapter 4. Exercise 5.

**Problem 5.** [DPV] Chapter 2. Exercises 2.13

**Problem 6.** [DPV] Chapter 3. Exercise 3.18.

**Problem 7.** [DPV] Chapter 4. Exercise 4.9.

**Problem 8.** [DPV] Chapter 4. Exercise 4.11.