Artificial Intelligence (CS 534)
Assignment 2 (80 points)
Due: October 1st, 5:59 PM

1. **Chapter 3, Ex 3.13** (14 points)

2. **Chapter 3, Ex 3.16** (16 points)

3. **Chapter 3, Ex. 3.26** (16 points)

4. **Chapter 4, Ex. 4.3** (20 points)
   Note: Please ignore the second part of 4.3.a, which asks for the following, "Compare the results with optimal solutions obtained from the A∗ algorithm with the MST heuristic (Exercise 3.30)."

5. **Chapter 4, Ex. 4.5** (14 points)
   Note: Provide the updated algorithm first and then provide the required reasoning.