

# CPS 130: Practice problems(**please do not submit**)

## **1 NP-Completeness**

1. (5 points) CLRS Exercise 34.1-1 (page 978).
2. (10 points) CLRS Exercise 34.5-2 (page 1017).
3. (5 points) CLRS Exercise 34.5-4 (page 1017).
4. (10 points) CLRS Problem 34-3 (page 1019).

## **2 Approximation algorithms**

1. (5 points) CLRS Exercise 35.2-2 (page 1032).
2. (10 points) CLRS Exercise 35.2-3 (page 1033).
3. (10 points) CLRS Problem 35-2 (page 1050).
4. (10 points) CLRS Problem 35-4 (page 1051).