

GRAPH THEORY TW782

Assignment 7 (due Friday 22 September 2017)

Read Chapter 7, sections 7.1 and 7.2 of *A First Course in Graph Theory* by Chartrand and Zhang, and then do the following exercises.

1. exercise 7.6
 2. exercise 7.8
 3. exercise 7.10
 4. exercise 7.12
 5. exercise 7.14
 6. Prove that, if T is a transitive tournament of order n , then T has a *strict ranking*, *i.e.* the outdegrees of the vertices of T are $0, 1, 2, \dots, n - 1$.
-