

Economics of Information Networks

Homework 5

Due November 22, 2018 at 11:00am

Requirements

Submit your homework *by email to*

"Economics of Information Networks" <turnbull@sk.tsukuba.ac.jp>

The **Subject:** should be 01CN901 Homework #5 (in hankaku romaji). Use this class number, even if you are registered according to a different code. Your email must contain your *name* and *student ID number*.

Problems

Consider the concept of “complete graph.”

1. Give the definition of *complete graph*.
2. Give the definition of *multigraph*.
3. Does the concept of “complete multigraph” make sense? If so, give a definition. If not, explain why not.
4. In the lecture, it’s mentioned that the idea of triadic closure arises for *connected* subsets. Why are connected subsets important?
5. Is a cycle strongly connected? Explain your answer.