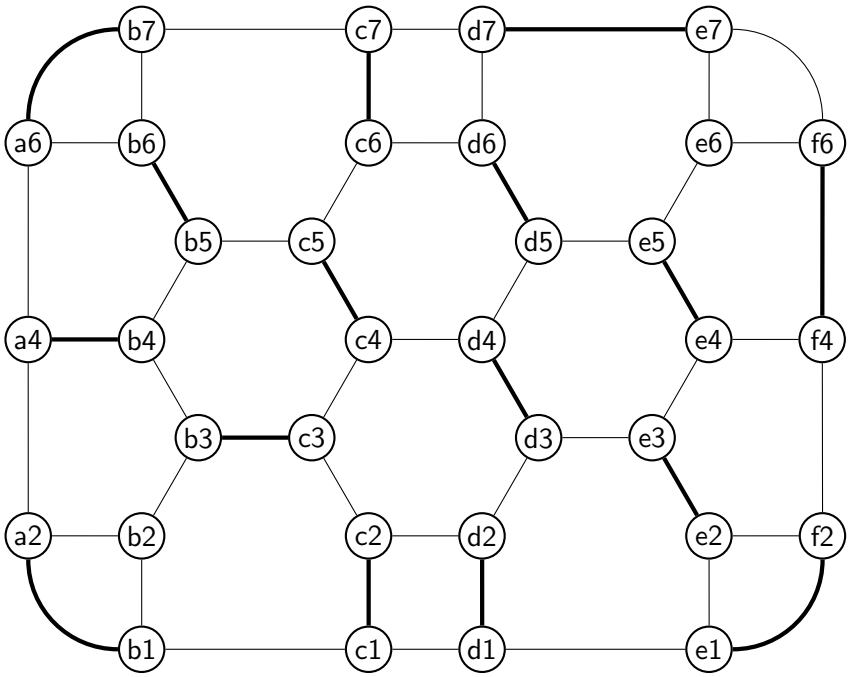
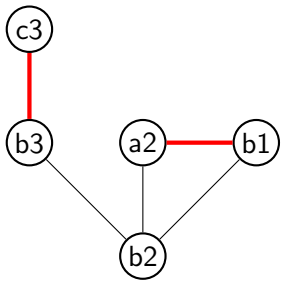
Coursework 3

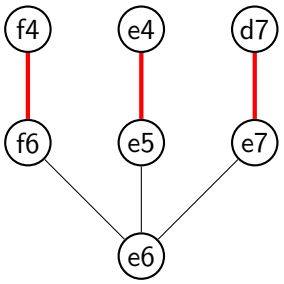
Graph Algorithms and Complexity Theory

Semester 1 Session 2019–2020

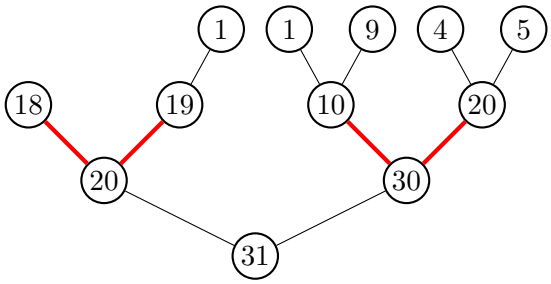
In the graph below a matching is indicated by bold lines. Execute EDMONDS' algorithm starting from this matching. Give the alternating trees you grow as well as the graphs obtained by shrinking blossoms.







Reference:



Submission: Work out and present your solution on paper. Handwritten but legible is encouraged. Typeset and printed is fine too, but please do not use a copy machine. Stitch together all your sheets and a filled header form and submit via SSO. State on the header sheet which tutorial group you attend. The space to do so is the line "Name of Lecturer Marking Work".

Since you will not receive a receipt for your submission, there is also the possibility to submit via Minerva. However, this is not required. A possible submission in Minerva will only be considered if your original paper submission gets lost.

Deadline: Monday 18 November 2019, 10am.

Credits: This piece of summative coursework is worth 5% of your grade.