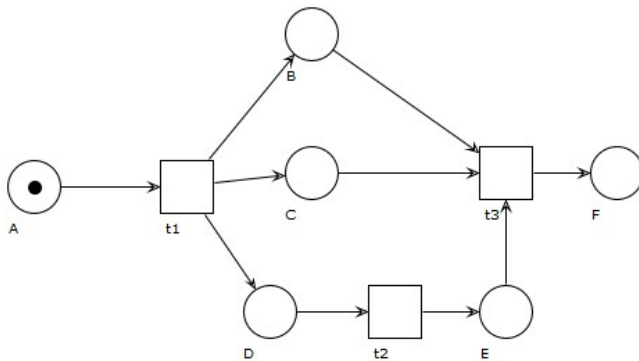


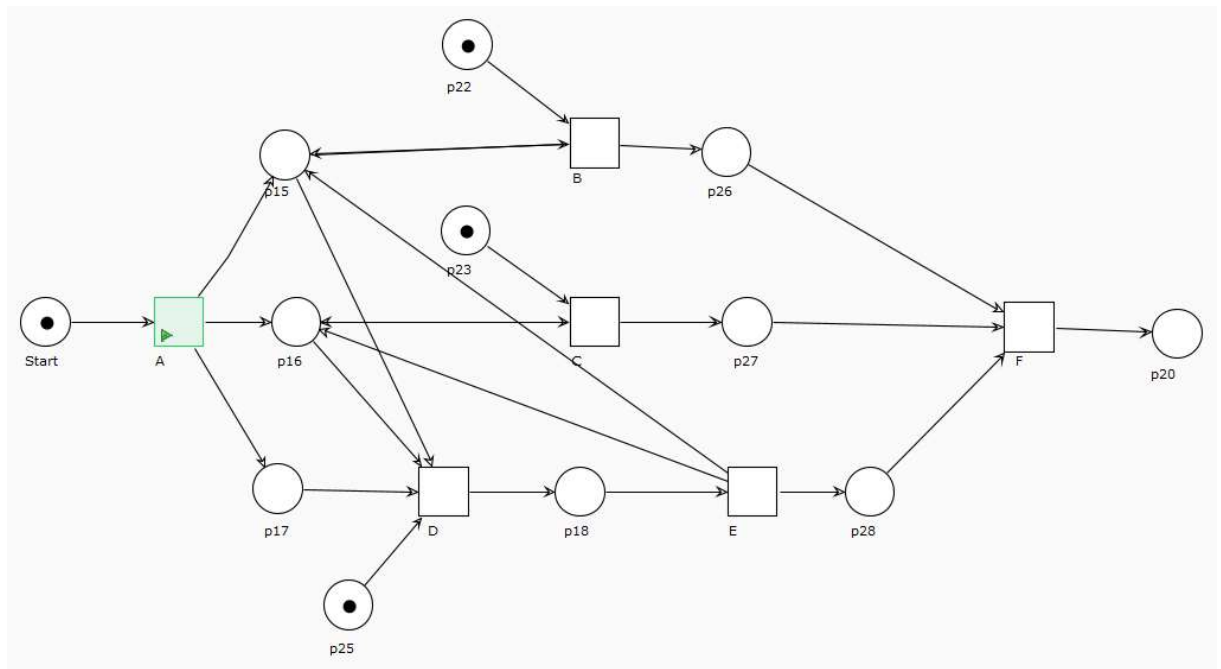
Group members: Thomas Auer, Larissa Krainer, Kristina Liebhart

Exercise 1:

1)



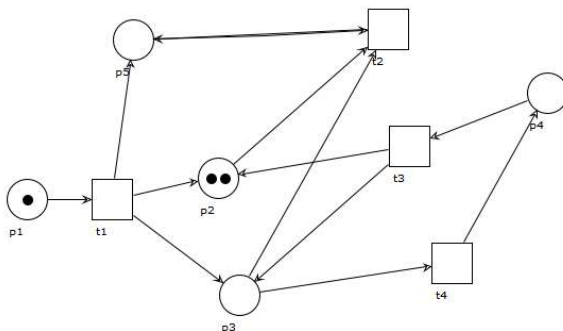
2)



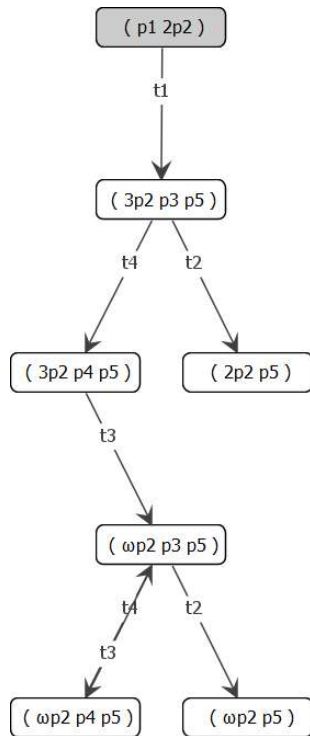
We decide to use A,B,C,D,E and F as transitions and not as places, because in the description they were specified as tasks.

Exercise 2

1)



2)



- 3) Boundedness: Because the whole petri net could be infinite, so it is unbounded
 Safeness: The petri net is unsafe because it is not 1-bounded
 Conservativeness: It is not (strictly) conservative because the amount of tokens is infinite (not constant)
 liveness: t_1 = L1-live, t_3 and t_4 = L3-live and t_2 = special case, it can be dead L0-live or almost L1-live, but it depends on the firing sequence
- 4) T_2 is our special case, it could be dead, but it depends on which firing sequence is chosen. It exists a firing sequence where t_2 is L0-live, but not in every firing sequence.
- 5) No deadlocks, the petri net is infinite if t_4 and t_3 are chosen in every firing sequence or it stops after t_2 . So there are no deadlocks.
- 6) Our petri net is not a workflow net, because it exists only as an Input place but no Output place.

Exercise 3

