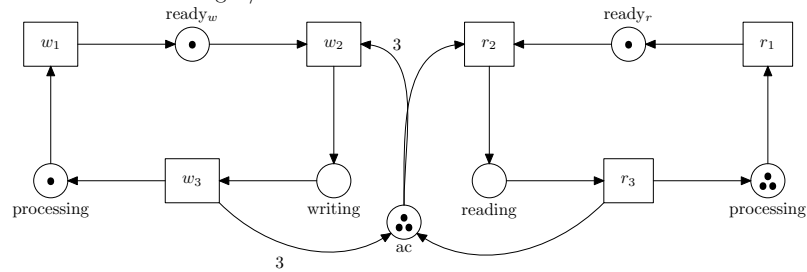
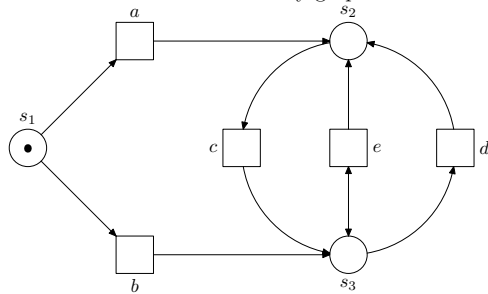


5.1 Consider the following P/T-net:



- Introduce minimal capacities which do not affect the behaviour of the net.
- Construct the matrix of this net.

5.2 Construct different coverability graphs for the following P/T-net:

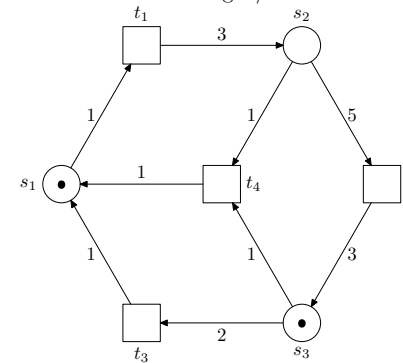


5.4 Construct three different P/T-nets with equal coverability graphs.

5.5 Show that in the P/T-net of the exercise 5.2

- $\exists M' \in [M_N)$ with $(0, 5, 10) < M'$,
- $\nexists M' \in [M_N)$ with $(1, 2, 3) < M'$,
- $\{s_2, s_3\}$ is simultaneously unbounded,
- there exists no M_N -dead transitions.

5.6 Consider the following P/T-net:



- Which subsets of places are simultaneously unbounded?
- Is the net live?

5.7 Is the net in Exercise 5.2 live?