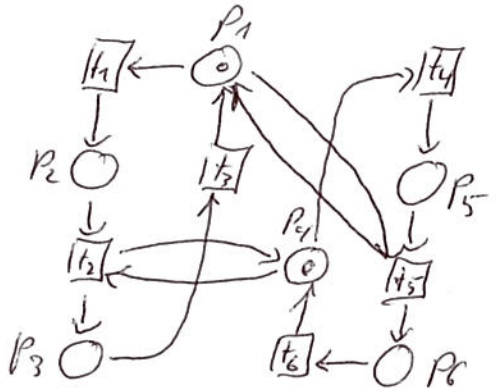
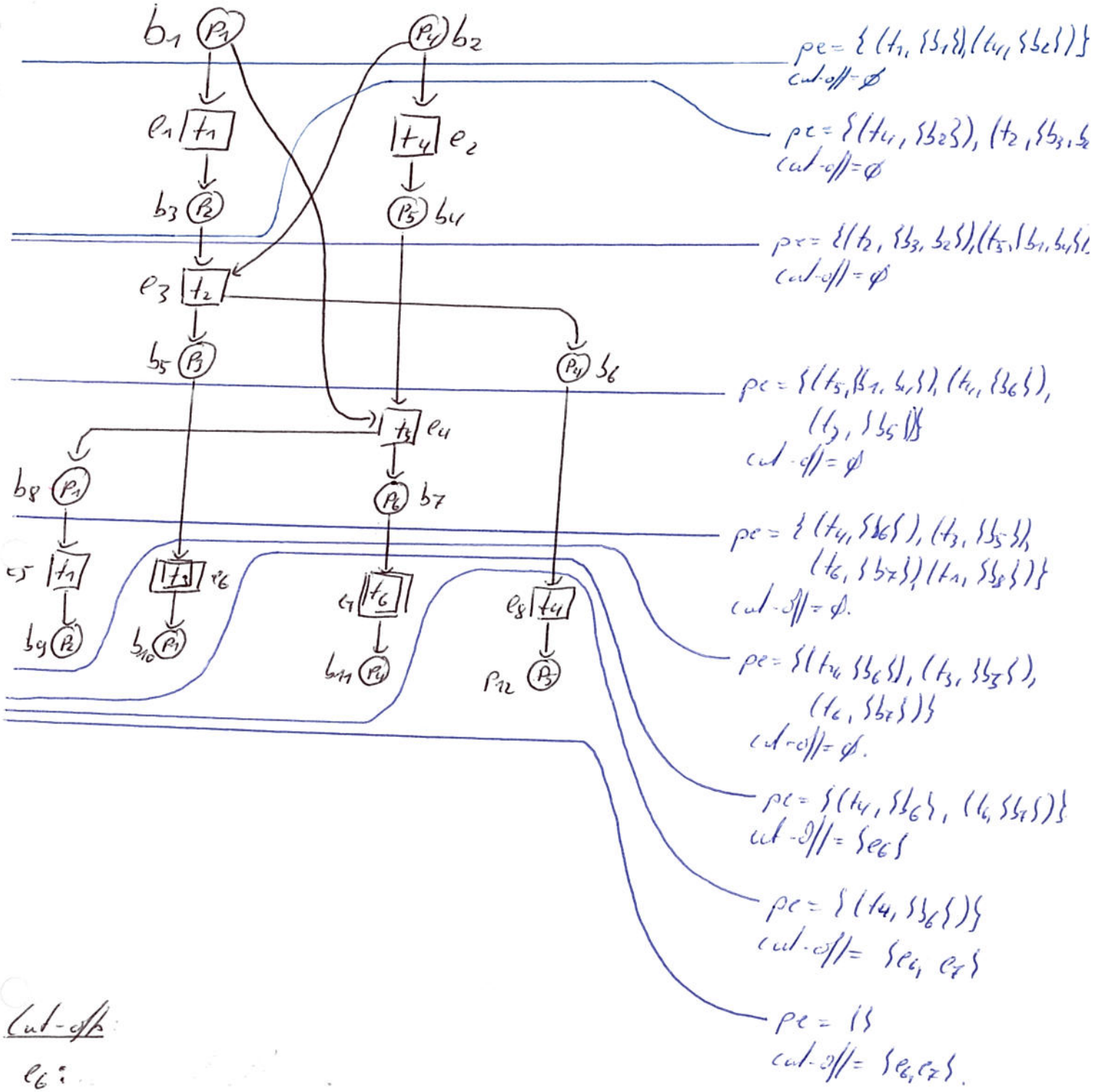
Finite and complete unfolding prefix:

Use the ERV algorithm together with McMillan's adequate ordering to compute a finite and complete unfolding prefix for the following Petri net:



- Provide the intermediary sets pe and cut-off.
- Give the reasons why you mark some events as cut-offs.



Cut-off's

e_6:

$$Mark([e_6]) = Mark(\{e_6, e_3, e_7\}) = \{p_1, p_4\} = Mark([\,]).$$

and $|[e_6]| = 3 > 0 = |[\,]|$.

Artificial event that yields initial marking.

e_7:

$$Mark([e_7]) = Mark(\{e_7, e_4, e_2\}) = \{p_1, p_4\} = Mark([\,])$$

and

$$|[e_7]| = 3 > 0 = |[\,]|.$$