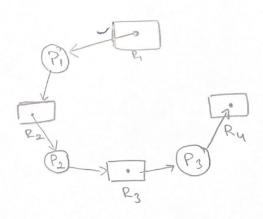
Problem 4

The system is deadlock free. In the question it says one process needs to be needs at most two resources. So each process needs to be holding one resources and requesting (or wolking) for another resource. Since there is It resources and 3 processes this condition can be met.



Also, when we drow the groph we can see that there is no cycle. Cach process is holding a resource and waiting for another.