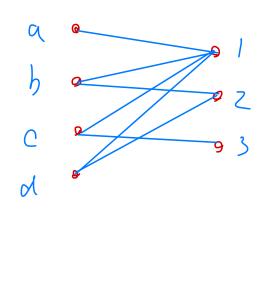
1. Prove that a graph G is bipartite iff it contains no cycles of odd length.



If we need to travel

from I back to I,

we must go to the

right side then back to

the left side. So, it

can not be add longth.