

(3 e) its cornected, as if we flip o>1s inarythm of mor on+1 per flip we will construct a path brown in 6m, su as all Aligns rumbers on the graph will becreated through this flips the graph will be connected The diameter is equal to the path length, which is 2m+1 not counting loops or multiple edges atleast 2 vertices have the same degree Because all graphs have endpoints, and there are at least 2, the exception is if the graph is cyclic, but in that Case atleast 2 services of the cycle will have the same degree except green Cxcle, all) = Z more than vertex of the of cxcle with addodverticos there is more than one endpoint 1
which have degree 1
so a tleast 2 vertices have the same degree