17 walk is a subsex of trail

a Subset of path, there will be some path which

can be also be a path, but there are also some case)

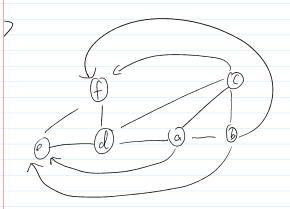
that is path which is not a circuit, vice versa

b) cycle is not always a trail

A Trail is not always cycle.

c) trail is not always open walk.

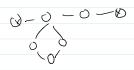
open walk is not always a trail



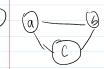
4X6=24

(x, 21) (21, 32) ... (Zn,y), if this trail is not already A-path.

(x, 81) ... (2c. 241) ... (2m. 21) ... (2n,y) K<m, 2c=2m



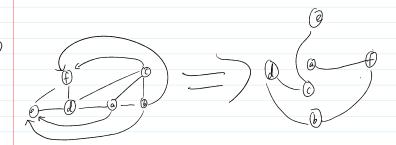
There is a contradiction ble a shurter exist. Therefore a shortest length is a path



Spanning subgraph m=3 $z^{\frac{1}{2}}=8$.

induced subgraph z $z^{\frac{1}{2}}=8$.

subgraph: $\binom{5}{0}$ $+\binom{5}{1}$ $+\binom{5}{2}$ $+\binom{5}{1}$ $+\binom{5}{1$





=) 15 edge