# Use pumbing lemma to prove that = 1 ab c ntk | n>0, k>0 is not regular. Assume. (L is regular.) Am>0. Me chase. M= Qu'm su . [IMF>m.)" consider Y possible decomp of W=2y2. ( $|2y| \leq m$ ,  $|y| \geq 1$ .). set i=0, 22 = a: b: #L ~ pumping lemma is true

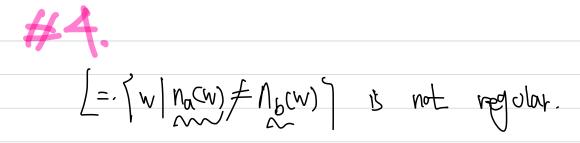
-: Lis not regular. **#**2.

W= · M. [mH. [ |24] /= m, [4121).

#3.

Z= [w | Na(w) = Np(w)] is not regular.

Ym>0 c



A