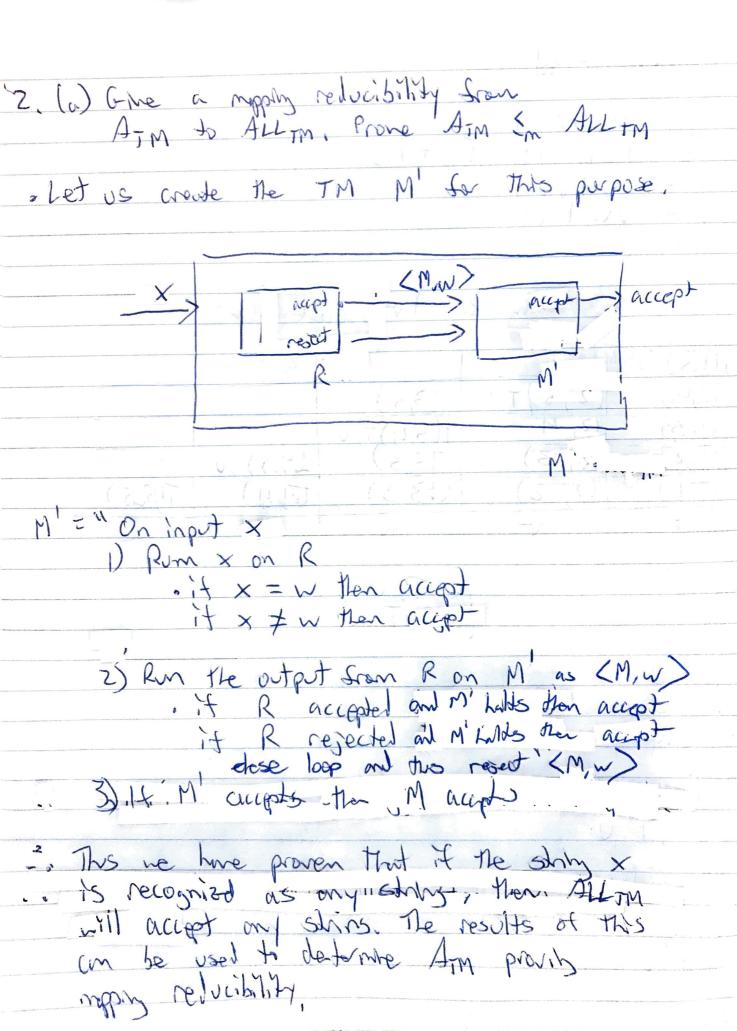
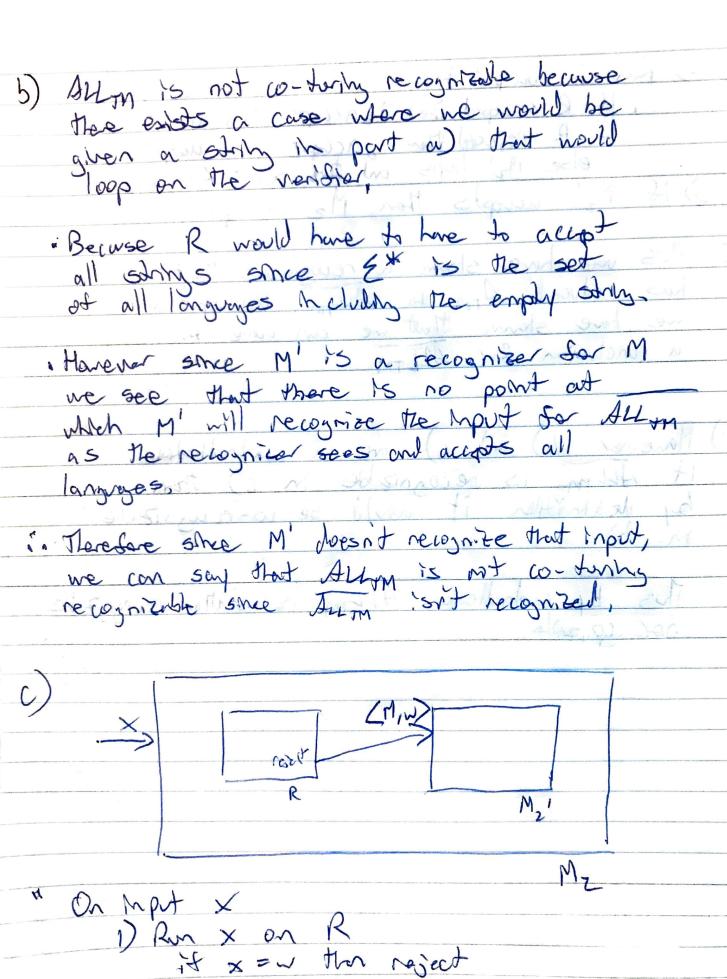
CSC 320 Phul	
1. S>TU UV TW T>TT UT WT	1+lu
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m. 5, V	





if x + w then

resect

2) Run the output from Ron Mz as (Mz, w)
. If R accord and. Mz' halds then accord
Is R resided her My had's The alcept
else My loops and this rocats (Mr. w)
3) If My accepts than Mz accepts,
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7 76
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we have shown that we can come to
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a) Manerer b) and c) are a contraltabler.
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- This by construction Altern is not co-Turns.
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*

- 3a) Prone that VERGEX-COVER & NP

 D) Prone it is NP

 D) Prone all NP problems are polynomial of the reducible.
- 1) We use 35AT reduced to VERTEX-COVER.

 4) Strice we know the vartex conv has 3

 modes each.

 5) for vertex conor we know each edge is (u,v)

 where at least one of u,v is E E.

 L) so a node con be x and x for three
 and Solke.
- Due see by theorem 7,44 that K = m + 21 and we am british of which is a booken formula that an be supped to a graph G and a vale k.
- Do Now for vertex coner since an edge touches each node we can say that p can be reduced to 6 and 1c.
- L) Stree \$ has been reluced to a 3 cont Sombon which IS NP we can say that VERTEX COVER & NP,