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we know that NL & CONL core
the same, (i.e) NL = CONL. So, CONLcompleteness is same as CONL-completeness
and thus PATH and PATH are both
NL-complete.

PACE DE PARTIL O COM

Consider, PATH UPATH = L. Then

L is the set of all strings (i.e)

L = 2. Obviously, L cannot

le a complete language in any useful

complexity class.

Thus, union of two NL-complète duss & need not le NL-complète

Reason L'annot le a compte language lecourse L is a trivoal language

3. see have to show that AEZ! => h(A) & Z!

Let $S \in \Sigma_i^p$. Then there must be an ATM (alternating TM) that takes in whether $x \in S$ in input x and determines whether $x \in S$ in New Newtone at most in alterations. Now we need to find another ATM with atmost we need to find another a whether a in other alterations that determine whether a