Date: September 14, 2020 AFLL dang Prembing lemma for originales languages
finite infinite regio RL (Infinite) Possemy proper
(Ryster) by property Assessment means

Infinité Lang Sunsory Lang Clean parsen posses
P.P. fail to possess (pars) Lary is clefinitely not May be neglin FA, RG, RE

Prove Ok where K is composite no- is not regular ! 2 0 = where k is composite no. 3 2C = S Dt where b is a prime no. } n states in spare of 2n O^{2n} O^{3n} O^{4n} O^{5n} O^{6n} FA Kie comforite ways dahispres pumping prop. 3

De de graps de la composite moils ?

La always satisfies PL Con you (2° is not regular than by whing closure profic of Provider Printing Comma)

Residual Scan Ray

Lis not regular De pisprine. PL - (losed) -> EL La Jan Supra compliment

Lets proone L = 30 where bis primes is not Abry Punfing lemma ! dy = wcwk we 3a, 63* $ls = abm n \neq m$ di-Ahbn+2 $d_2 = Q^n b^n C^n$ 23 = anbmcm

a) The opponent claims that the lary is right.

b) Lets say there are n states in the hypotratical my fort. b) Lets say there are w= 0 where >n c) we foick the shry keale the ling win 3 parts xyz d) Lets bay we can 1 2 | = > | \frac{\alpha y | \lefta n}{} $1 \leq |y| \leq n$ Some o's (m) $1 \leq m \leq n$

) > n y is made up I some o'i (m)Choose := 3+1 TyZ + m(i-1) m() + 1 - 1) $= + m + m \neq L^{2}$

