3a. 1 = (a.b) HUMCVVOYK 5 Ochven 3a, Ma generales [a] $Ma = \rightarrow (1) \stackrel{a}{\longrightarrow} (2)$ @ Given 3a, Mb generates [b] Mb = 3 - 1 3 Given 3a, 10 & 10, Mc generates (a b) Mc = (1) a x(2) E 3 b x(4) 3b. r= ((a·c)1b) @ giren 3b, Ma generates vall Ma = 3 (1) a (2) 3 given 36, Mb generates [c] Mb=335 3 given 35,0 & 2, Mc generates (a.c) MC = YOODE 3 DE D given 36, Ma generates [6] Md= V 3-6 (5) giren 36, 3 & (1), Me generates ((a·c)16) 3c) r=(a.(11c)*) Ogiven 3c, Magcnerates CaD Ma= (1) a (2) @ given 3c, Mb generates [2] Mb = 3 1 3 given 3c, Mc generales [C] M(= 3 5) 4) giren 30, 3 63, Md generates (110) Md = Y (3) 5 (5) 5 (6) (3) 1 (4) 5) given 30, 4, Me generates (110)*

L= { x yn z | nz 0} $x = \emptyset$ $y = \emptyset$ z = diedI the dog died 2) the cat the dog, chased died \$1 the cat the dog cat the dog chased died 31 the cat the dog the rabbit

bit mased dred . the cat the dog the rabbit cat inc dug me rawhit cat the dog the rabbit vit chased died. y3

@gwenx,0,5,Mf generates (a.(11c)*)

Therefore this language

doesn't satisfy the pumping

Lemma & is Not regular