Hrash Vouisht Final (b\* ab +a)\* 2) USPless Productions 5 = 7 ab | a A | BC | a (a | B 4 since S -> BC exists B-> Creachable S-7 ab/at/aca/B remove redundent sym A-75/BC/aaDIX C & D B = A | Ba | Db so ans = c = D(a la(b D-70/6/66/18/1 5-7 ab lattacalB Non-terminal symbols A, L, D D-7 a/b/cbb/B/A 5-7ab/at/a(a/B C-7 D(a la(b D-7a/b/Cbb/B/1

5 70515 3) 8-7051/0511/8 5-7 & PDH: State goglazas intial gro accept state: 3 Transitions OVO, 8,20-791-70: Start reading 0's 91,0,20 -791,020: continue 0's 9/18,70 -70,20 = reading 1's 10's avz, 1,0-792, 2 = continue reading : 0 2, E, 70, 57 9/3, 20: condition NZMLZN Creating a TM that multiples two numbers which are represented by zeros & separated by 1's 00100 = 3x2 = 6 = 0000003=000 2=00 This TM involves repeatedly. 000 + 000 Moving from second group 0000 +000 of zeros to the end of the 00000 + 60 current sum & adding a Tero = 000000 After which moving back & decrementing the Second group of zeros until