_ จางเขางางกับไม่ตับ - msian - ไล้งขึ้น โยยลก

Theory of Computation

Exercise 6: (Pumping Lemma)

Moste luce cuchiller of source of punctions of megalinary son

Prove by Pumping Lemma that the following languages are not regular.

1. L1 = $\{0^i1^j: j \text{ is a multiple of } i\}$ or our ourself

ด้างเป็นจำนอนเคา

(3) WOS W => XYZ WITH 1XY1LM, 14127

(4) 18/18/18 × 1/2 × 18/18 (4)

xy07 = 0m-le10

(1) Asias tregular, am state $M = 0^m 1^m$ // 101 m shifty string as a single $M = 0^m 1^m$ // 101 m shifty string as a single $M = 0^m 1^m$ 6000.000 011170001

|-x+y-1| > (8)y88020 y = 06 non regular lar

m,-le=tm2 imposible >> prove las lasitalu resur

, asing -> 681/21/2011, j 2012/5/1/25 m+1 |30|=2 - 2le m-l+2leTaonstring W = 0m1m+1 เชื่อรรกิมา G= Ok Jours lezs $xy^2 = 0 + 1$ 1811AON 1=2 11800000 L 2 (121 -11818 20 1=2 La is not regular LSHUNDING I NOTHUNDISS MIRSOI (ALLO

*3. L3 = $\{0^i 1^j : i \ge j\}$

(Submit 5)

Dassane L3 is regular

 $3 \times 10^{-1} = 0 \quad 9^{2/6} \quad 0^{m-le} \quad 0^{$

5 prove rationsonier language