Saturday, June 6, 2020

1:17 PM

 $L_{1}=\{a^{n}b^{m}c^{h}|n,m,h\in\mathbb{Z}^{t},2h=n-3m\}$  $L_{2}=\{a^{n}b^{m}c^{h}|n,m,h\in\mathbb{Z}^{t},2h\geq n-3m\}$ 

Qu Salution

Prove Lis regular with pumping lumna Li= { a b m chl n, m, h EZ t, 2 h = n-3 m}

P = 70 + 31  $W = \alpha^{b} c^{o} | 20 = p - 31, W \in L_{1}, 1 \text{ M/S} P$   $y = \alpha^{k}, P = 2 \text{ K} \geq 1, 1 \text{ X/I} \leq P, 1 \text{ I/I} \geq 1$   $XZ = \alpha^{p-k} b' c^{o}, p - k \leq 20 + 31$  $=> x \geq 4L$ 

.. Lis non regular

where L2 (2h2n-3m) includes L, (2h=n-3m)
L2 is also non-regular

