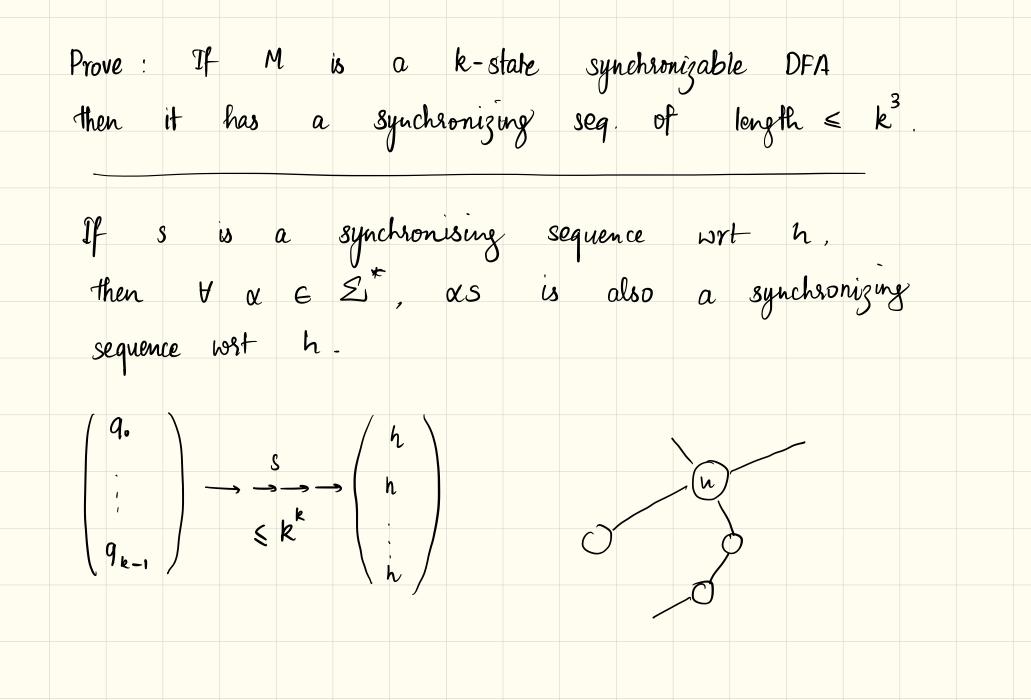
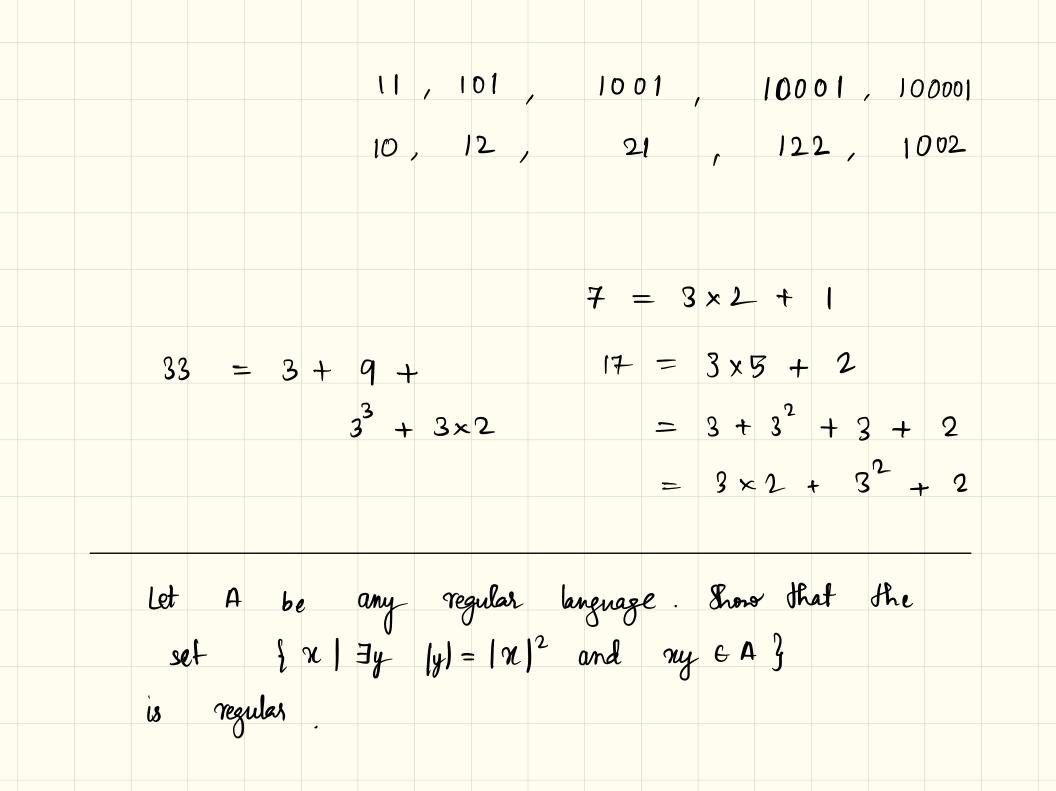
03 Mar 2025 - Theory of Computation → 1.41 , 1.42 66 m Supset $M = (Q, \Sigma, \delta, q_0, F)$ DFA One of the states is called "home" state. Let $h \in Q$ be the home state. A string s $\in \Sigma^*$ is called synchronizing sequence if ∀qeQ. $\hat{\delta}(q,s) = h$ Call M synchronizable if I a synchronizing sequence for some state h e Q.



1.46 Use dosure properties $\begin{cases} 0^m 1^n \mid m \neq n \end{cases}$ Suppose regular: 1) Complement 1.47, 1.56



$$|y| = 2^{|x|} \longrightarrow eosies$$

$$|y| = 2 |n|$$