Question 1,60 C,= 5 \* 6 5 \ Z 3 C, b3 Creite in NFA with K+1 states that recognizes 6 LOTNFAM have K+1 states Q= 30 to K3 Stating state 9 = 0, Final state
A state in Q refers to how many of the last 6 Kbits Mhus read. State functions are as follows While in O, stey in O intilan a appears S(0,6)=0 6 When in a oppiers, issume it is king from theend 8(0,9)=30,13 This continues until state K SCi-1, aub)=; for 2=; = K It reaches state & and excepts if I there in 6 K-1 inputs from the transition input from Otal -6 6 6 1.61 Prove Cx connut be accepted by my DFA with a=27 6 let there be two differents inputs cond duhichere numbered C, Cx and d, ... dx since they are different for some ; Onen must be a and the other b let e be the the Collowing inputs that distinguish 6 ce and de as the KIL Shember of the string. Those rules make all inputs of length R distinguishable. The DFA must have 2 "Statesor 6