S2 = 100 ··· 8, ··· 82 S2€ L, 60 S3= 200 ... 8. ... 8. S3 & L Sy = \$15\$... 80 ... 81 ... 82 Sy & L abb S5: 100 80 81 8-82 Sg & L abab S6= paab 8, 92 80 8, 56 \$ L 57 - X

H. = (3 80; 91, 927, 39, 67, 80, 88, 8) L,= 7an: n713 2=50,69 Q=580,81,83 F= 88.8 δ: (go, a) = g, (go, b) = g2 (g, a) = g, (g, b) = g2 (g2,a)= g2 (g2,b)-g2 L(H1)= L1

M2: (380, 817, 304, 8, 80, 8818) 12 = {an : n>/19 = 5a3 P= 580, 8,5 F= 58,3 S: (go, a) = 31 (g1, a) = g1 L(M2) = L2

er 13= 3 a": 170 5 M3: (9807, 9a7, 5, 90, 2907) (go,a) = g.

State diagrams: es 13 = Zan: 1703

L2=7a1: 1713 Z={a? Syl

er Li- Za": 1713 2-39163

M, = M2 iff L(N,) = L(M2)

5th is the extended transition function. I the second argument is a string (not a symbol) $\delta^*: \Phi \times \Xi^* \to \emptyset$

ex. if $\delta(g_0,a) = g_1$ and $\delta(g_1,b) = g_2$ ≥ 5* (go, ab) = g2

give cosple excuples of dfa, nfa.