Automaton DFA1 01 Automaton DFA2 - D Direct sum = {0,1} Q={A,B,C,D,E} 90=A F={A,C,D} I leave it for you → AED => DFA, E DFA2 to prove A and D are in the same class in Q/E of DFA1+ DFA2 DFA3 DFA2 and DFA3 are isomorphic L(DFA2) = L(DFA3) 15

Q/E= { { p, q} { v, s}}

- mitial

f(C1,0)=f(P,0)=q∈C1

 $\ell'(C_1,0) = C_1$

 $f'(C_1,1)=f(P,1)=r\in C_2$

 $f'(C_1,1)=C_2$

Z={0,1} F={P,r}

1(BO)=9

1(b,1)=r

g(r,0)=r

f(r,1)=P