



$$R = \mathcal{E}$$
 $P = Ra + Sa \rightarrow (2)$
 $S = Rb + Pb \rightarrow (3)$

Reg Ex= R+P+S Reg Ex= E+(a+ba)(ba)* + (b+ab)(ab)* Reg Ex = E+(a+ba)(ba)* + (b+ab)(ab)* Reg Ex = (a(ba)* | b(ab)*).