- εR=R ε=R
- ε*= ε ε is null string
- (Φ)*= ε Φ is empty string
- ΦR=R Φ= Φ
- Φ+R=R
- R+R=R
- RR*=R*R=R+
- (R*)*=R*
- E+RR*=R*
- (P+Q)R=PR+QR
- (P+Q)*=(P*Q*)*=(P*+Q*)*
- R*(ε+R)=(ε+R)R*=R*
- (R+ε)*=R*
- E+R*=R*
- (PQ)*P=P(QP)*
- R*R+R=R*R

1. $L + M = M + L$

2. $(L + M) + N = L + (M + N)$

3. $(LM)N = L(MN)$

4. $\emptyset + L = L + \emptyset = L$

5. $\epsilon L = L\epsilon = L$

6. $\emptyset L = L\emptyset = \emptyset$

7. $L(M + N) = LM + LN$

8. $(M + N)L = ML + NL$

9. $L + L = L$

10. $(L^*)^* = L^*$

11. $\emptyset^* = \epsilon$

12. $\epsilon^* = \epsilon$

13. $(xy)^*x = x(yx)^*$

Aşağdaki regüler ifadelerin hepsi eşdeğerdir.

(a) $(x + y)^*$

(b) $(x^* + y)^*$

(c) $x^*(x + y)^*$

(d) $(x + yx^*)^*$

(e) $(x^*y^*)^*$

(f) $x^*(yx^*)^*$

(g) $(x^*y)^*x^*$