= at alt RP => at alt at ATRPP R = Q (E+P*P) --- (:: E+R*R=R*) If Pand Q are two Regular Empersaions once Es ARDEN'S THEOREM (FA > RE) following equation in R given by R= Q+RP ouse if I slee not contain E, then the Pued: tois is the unique solution. has a unique solution R= OP* R = Q+RP (i) Replace R with QP* R= Q+ QP*P-R= Q+RP (1) Replece R noith & +RP R = Q + (Q+ Rt) P *~ 00

3

Repair with [R= QP*] at ap + ap2 + ... apn + RPm+1 = Q [6 + p + p² + ... pⁿ + p* pⁿ⁺¹] = 8+8P2+...8P2+8P* => Q + BP + BP2 + RP3

Much Rund Laing 3 charties

(Rund that
$$(1+00^*L)+(1+00^*L)(0+10^*L)^*(0+10^*L)$$

is equal to $0*L (0+10^*L)^*$

$$AHS = (1+00^*L)(0+10^*L)^* (0+10^*L)$$

$$AHS = (1+00^*L)(0+10^*L)^* (0+10^*L)$$

$$AHS = (1+00^*L)(0+10^*L)^*$$

$$AHS = (1+00^*L)(0+10^$$