Regular ting # Regular Languages :-La language is said to be so Regular Language if and only if some FSM recognises it notat languages are NOT Regular? (i) langnage venien au not revoguised by any FSM (ii) unien require memory >> Memory of FSM is very limited » 9t cannot store or count ababb ababb Not Regular. menory to store to true it ran be repeated aN bN - (Not Regular) same : need to remember no ga's first for b's to be made

Regulae Expressione

or operations on Regular Languages

1) Union - AUB = {2|XEA OR XEB}

2 romateration - AOB = {xy | x EA or x EB }

3) Star - A* = fx,xx x5...xk ky o and each x; EA}

eg 81 > A= {Pq, r}, B= {E, UV}

AUB = { pq, r, t, UV} AOB = { pat, paur, st, sur}

A* = {E, Pa, r, Par , rpg, Pape, rr, parti

Treorem I:- Ine does of legular languages is closed emder UNION.

3 sta

Theorm 2: - The class of RL is crossed under CONCATENATION :