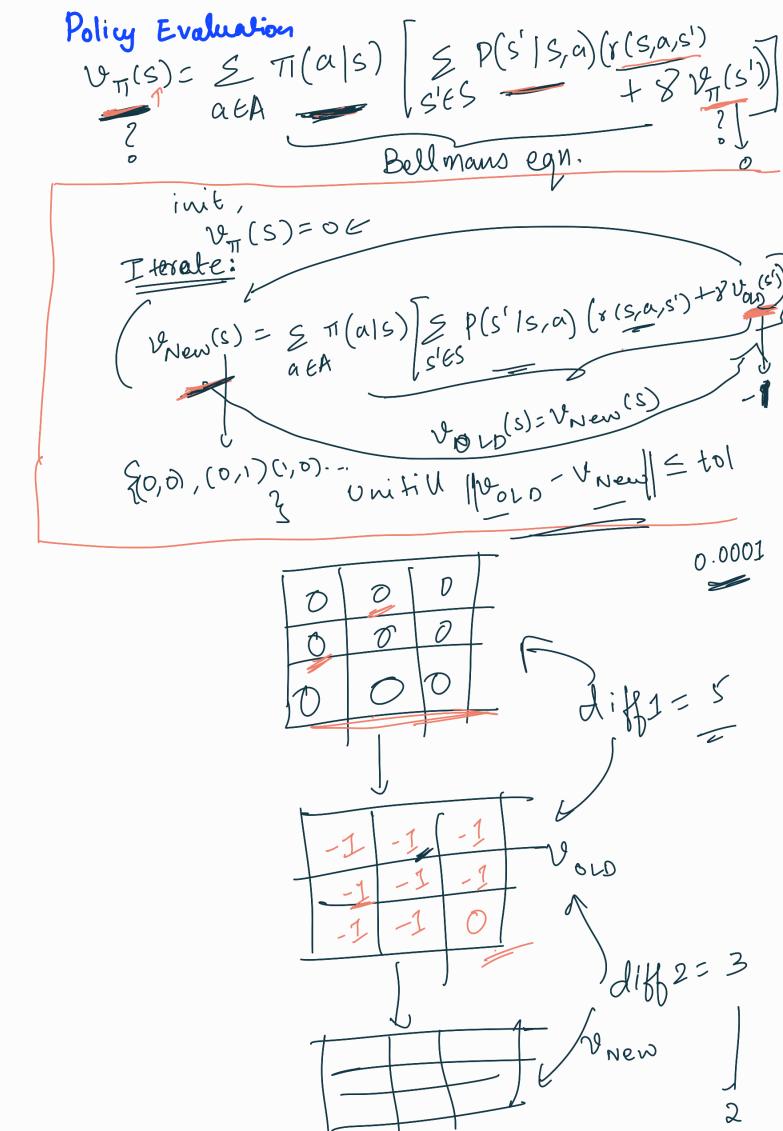
Dynamic Programming > policy evaluation ~ > policy improvement - Value iteration T(als) -> policy 23 113 112 RI 71 1 **=** 5,10,15 83,5,7 3,3,5 Ang (3,5,7) Aug (3,3/5) 12/13 0(12 3 4 19 Q

VT3(8) > VT12(5) > VT1(5)



Policy improvement value iteration

TT(als) - Not known

we need to some up

with optimal & policy

T1* (a(s)

 $V_{OLD}(S) = 0$ $V_{NEW}(S) = max \left(\frac{S}{S'tS} P(S'1S,\alpha) \left(\frac{T(S,\alpha,S') + S'}{V_{OLD}} \right) + \frac{S'}{NEW} \left(\frac{S'}{S'} \right) \right)$ $V_{NEW}(S) = \frac{1}{\alpha \in A} \left(\frac{S'}{S'tS} + \frac{1}{NEW} \right) \left(\frac{S'}{NEW} \right) \left(\frac{S'}{NE$

Finally after convergence $9_{NEN}(S) \approx 9^*(S)$

Optimal state Value function 19th (s) gives

H* (a/s) optimal policy

one-step reword:-1

1-1:-4.

4 & 10

8