1/203 S =		las		
A Clar	) = { \$	erch, wait	recharge }	
3	a	<i>S</i> 1	٩.	p(s', r/s,a)
high luch	Stanh	hizh	rzeasch	×
Jogh	wait	high	rseasch	1-X
low	slanh	high	-3	1- B
low	wait	low	rwalt	1
1000	Redorg	ligh	0	
where	p(s', r	1 s, a) =	PX & TScher's signifure	Ren Ses, A=

 $\begin{array}{l}
\sqrt{2} & \sqrt{3} & \sqrt{3} & 2 & \text{mank } & \sqrt{1} & \sqrt{3} & \sqrt{3} & \sqrt{3} \\
\sqrt{2} & \sqrt{3} & 2 & \text{mank } & \sqrt{1} & \sqrt{3} & \sqrt{3} & \sqrt{3} & \sqrt{3} \\
\sqrt{2} & \sqrt{3} & 2 & \text{mank } & \sqrt{3} & \sqrt{3} & \sqrt{3} & \sqrt{3} & \sqrt{3} & \sqrt{3} \\
\sqrt{2} & \sqrt{3} & \sqrt{3} & 2 & \text{mank } & \sqrt{3} & \sqrt{3} & \sqrt{3} & \sqrt{3} & \sqrt{3} \\
\sqrt{2} & \sqrt{3} & \sqrt{3} & 2 & \text{mank } & \sqrt{3} & \sqrt{3$ 

De Enercia 3.5 & 3.16

Sign of these rewards and do not expect the learning algorithm and honce, does not matter bic adding a large tre constant to all the rewards set all rewards become positive would not expect the learning algorithm and only increase value junction by a constant which we would see much similary, adding a least very small—re constant to all the reverses.

S.t. all rewards become would not the learning algo.

But investing the steps of some all the sewards

the algorithm. As then, our reward function would

become Cost genetion. Claim: Adding a constant c to all rewards adds a constant, ve, to the values of all states, Proof: UTI(s)= ETI [9+ 15+=3] Of (s) = FT [ S yk RLHKH [] = 8] Now, add c for all the yourds JE(s) 2 FET [ E YK (REPRES) SEES] NTIS) 2 FIT [ & YKRHHHH + & KEN KKC[SE=S] DITO) 2 FT [E YKRHEN 1 SED] + E [E YKC ISE-S] let vez & yke e e c & yk as ve i) a constant 5/T(s) 2 VTT (s) + Vc As  $0 \le Y \le 1$ , we have  $0 \le Y \le 1$ C turnly 9.P sum for 1-YTeacher's Signature Minister survies)

Cloody, Policy alues of any state under any policy is an appealed as de only depends on chy. In Case 9 Episodic task, we will hap Vcze E y where T is to a 8.V where the which denotes terminavez c ( y y + y + y 2 + .... + y ) Jc 2 ( Y -1) 2) Ne with be don't not a constant & is a 8.V. and function of 7, Jos different episodes, one may have different value-finetors. But de will be a constant for a single episode, hence won't gut she learning algorish.