

Algo (Policy Iteration (P1) Algo) 0) Initialite admissible TTO. Set m=0 1) Policy Eval: Set VII(X)=0 HXLEX, TEM for j=0,1, "" Vári(XL) = C(XL, UL) + X. Vá (XL+1) EX where Uz=TT(x1,), Xxx1=f(xz,uz)

2) Policy Improvement: Set Vious & Vitt Them = argmin { ((Xx, T(xi)) + 8. Vyous (xiv))}
Where Xixi= f(Xx, T(xic)) Set TM+1 = TNEW Go to Step 1) + set Mc-m+1.

Remarks: The bolicy eval step 1) is computationallytig-700, and we must perform each iteration of xxxX. - for now longider X as a discrete state space. Q? Can me truncate à 10 j=Mites! 4. YES! Generalized Policy Iter (GPI) Q: Can we troncate to M=1 iteration? Textbooks:
A: VES! "Value Iteration (VI)" SitonaBarto Ref: [Houard 1960], [Piteronan 1978] fortleary. Bertselas.