$$|E(-16, TTST7, 24-15)|$$

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 $\exists V_{K1}(s) = \max_{\alpha} E[R_{t+1} + Y_{K1}(s_{t+1}) | s_{t}=s, A_{t}=a]$ this is BOE, implying $\pi'(\cdot)$ as one of the optimal policies & VM (s) as the optimal State-value function $V_{*}(s)$ $T_{*} = \{\pi_{1}, \pi_{2}\}$ Value iteration: - (PE-PI-) PItr)

Value iteration: - (PE-) PIT-)

policies Policy its uniolves policy evaluation which itself is it exative & requires multiple sweeps through the state space. Is it possible to truncate PE? without losing the convergence guarantee of Policy its

What about if PF is stoffed after just one sweep? (one update of each state) This is called as Value iteration (VIII) -> combination of PI & town cated PE steps Vk+1 (s) = max E [Rt+1+7 Vk(St+1) | St=s, At=a] ¥ 3 E 3 TO E VAD I A, E, VA, -.. No -> VAN BE VIIIs
optim al policy Tx for any policy x, BoE the state-value func. if it

satisfus BE