Policy Coodent - Basic \$6 Policy & 7209 / Value Method / Value Method / Value Method

Value Method () Nahue Auctor \$7091. 21 pring 78291 or 78278121 (1298 Patry Method () Patry 78291 Patry Condant First Officers Patry Condant Rote (Loris Patry Condant Reter-Loris Patry Condant Reter-Loris Patry Condant

* Policy Bared RL Find 8 that Maximises 5(8)

26) better convergence. Properties

Of converge to Incol

Other in high-dimensional action apoces

On learn student a pokins

 $\begin{array}{lll} \theta_{k,\eta} &= \theta_k \,+\, \Delta\theta & & & & \\ &= \theta_k \,+\, \partial \, \nabla_\theta \, \Im(\theta) & & & & & \\ &= \theta_k \,+\, \partial \, \nabla \big(\, \Xi_{\tau_\theta} \Gamma \, \nabla_\theta \, \log \, \Xi_\theta \, (s,a) \, \, \big) \, \, & & & & \\ \end{array}$

- Monte-Carlo Policy Gradient(REINFORCE) (0).

using stochastic gradient ascent, policy gradient become

- Actor - Critic Palicy (Indent (0,11) update
Actor Lupeate actor-value faction) parameter 6 459
Critic (to extravel actor-value faction) parameter w 22214 271

 $\Delta \theta = ol \nabla \theta \log \pi \theta (s, a) Q_W(s, a)$ (approximate policy gradient)

Policy Gradient algorithms 3th find 0 ← use J(0)!		
A ⁰ 1(0) =	ET . [Vo log To (S, a) V4]	REINFORCE
	ETE [De log Te (s,a) QW(s,a)]	Q Actor - Conti C
	Eπο [Vo log πο(s, n) Αμ(s, n)]	Admotoge Aubir-Contic
	Επο [Vo logπo (s, a) 8]	TD Actor-Contro
	ETO LVO log To LS.a) Se]	TD(2) Actor-Costic
Grove Ve J(p) = w		Natural Autor - Cortic
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