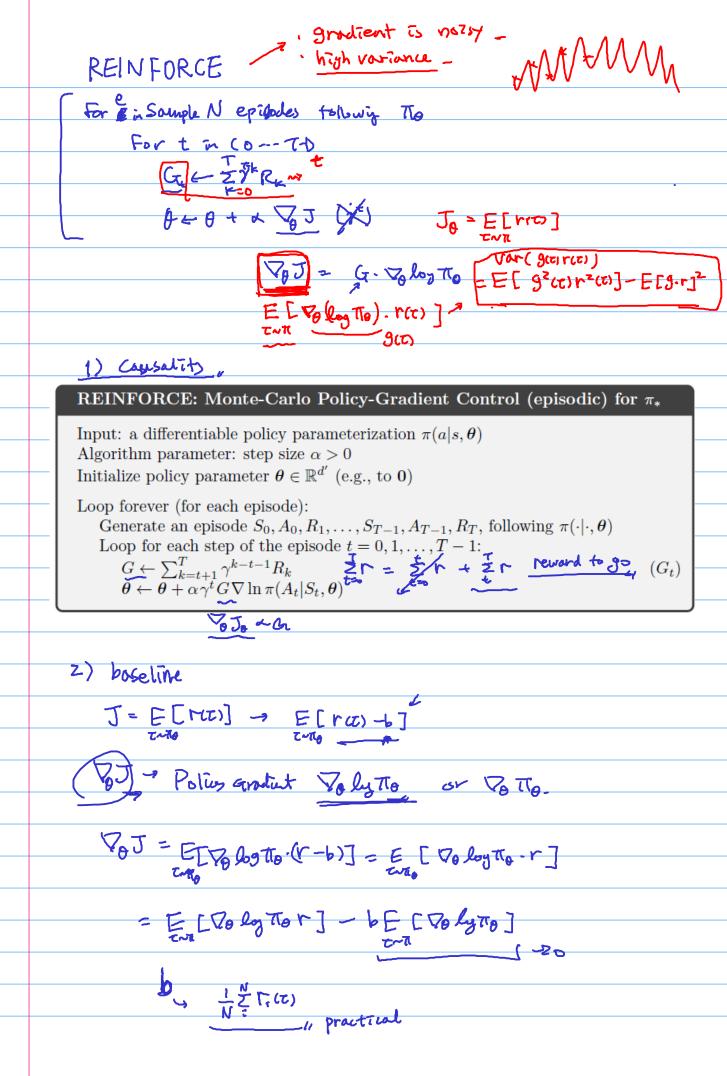
## Policy Gradient Method.

	1 , 2 11 211 021	, , , , , , , , , , , , , , , , , , , ,
	Deep-Q-Lowning	Tto= P(als)
	$\widehat{Q}_{0}(s,o) = \sum_{i=1}^{n} W_{i} f_{i}(s,o)$	[a1,a2,a3
	F(0. s, a)	To Softmax P(y=c)
	L(Q-Q)=	
	L(0 0)=	P(015)
9c	D-4-36	
- 0	े रिष	E-greedy T - transform
	Optimal policy Gr= ZF+. T=	
	F[Ge]	ant a
	Q > (5.0)	0 ~~
		Ja a
		PG: Strongen "convergence government
		<u>↓</u> .
	$T_{\theta} = F_{\theta}(s)$ $T_{\theta} = F_{$	
	= j 11 <sub>0</sub> (t)-rct)dt	
	Vo Jo = 5 Vo To recode x dlogx = dx	
	= ) To (Pologite). rcz)	$d\tau = E[\nabla_{\theta} \log \pi_{\theta} \cdot r(\tau)]$
		of the control of th

 $=\frac{1}{N}\sum_{i}^{N}\left(\sum_{t=0}^{T}\nabla_{\theta}\log t\log(\Lambda_{i\theta}|s_{i\theta})\right)\cdot\left(\sum_{t=0}^{T}\Gamma(s_{z_{i}}\Lambda_{i\theta})\right)$ 

MC PG



$$V_{Ar} \left[ \nabla_{\theta} \log \pi_{\theta} (r - b) \right]$$

$$= \frac{g(r)(r - b)^{2}}{2^{2}(r - b)^{2}} - \frac{E[g(r - b)]^{2}}{2^{2}} = \frac{E[g(r - b)]}{2^{2}} = \frac{E[g(r - b)]^{2}}{2^{2}}$$

$$= \frac{1}{2^{2}} \left[ \frac{g^{2}(r - b)^{2}}{2^{2}} - \frac{1}{2^{2}} \frac{g(r - b)^{2}}{2^{2}} \right] = 0$$

$$= \frac{1}{2^{2}} \left[ \frac{g(r - b)^{2}}{2^{2}} - \frac{1}{2^{2}} \frac{g(r - b)^{2}}{2^{2}} \right] = 0$$

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