USVAL APPROACH -P MC INTEGRATION

-D SAY THAT WE ARE INTERESTED IN ESTIMATING ET (f(0))

PLOBIEM

NOTEASY TO SAMPLE $T(\theta|x)$ $T(\theta|x)$ $T(\theta|x)$

· WE WILLD LIKE TO USE A PROPOSAL g(D) AND SAMPLE Q-10 -g(D)

 $= \sum_{n \in \mathbb{Z}} (f(\theta)) = \sum_{n \in \mathbb{Z}} \left[\frac{f(\theta) \, f(\theta) \,$

• MORE EFFICIENT THAN REJECTION SAMPLING! WE USE

UNNORMALISED $P(\Theta(x) = Z, \widetilde{P}(\Theta(x))$ where $\begin{cases} \widetilde{P}(\Theta(x)) = PRPC DISTRIBUTION \\ \exists \in VNKNOWN CONSTANT \\ A(\Theta) & A(\Theta$

- E (0) = - Z wie

8(0x) P(4) M(3)

- 1) SAMPLE 0, ~ 0, ~ ((0,1)
- · 2) WEIGHTS W; = T(0) = T(7) 012(1-01)3

•
$$w_i = \frac{p(\theta^i) \chi}{g(\theta^i)}$$
 AND $w_i^* = \frac{w_i}{2w_i}$

$$\theta^{(1)}$$



