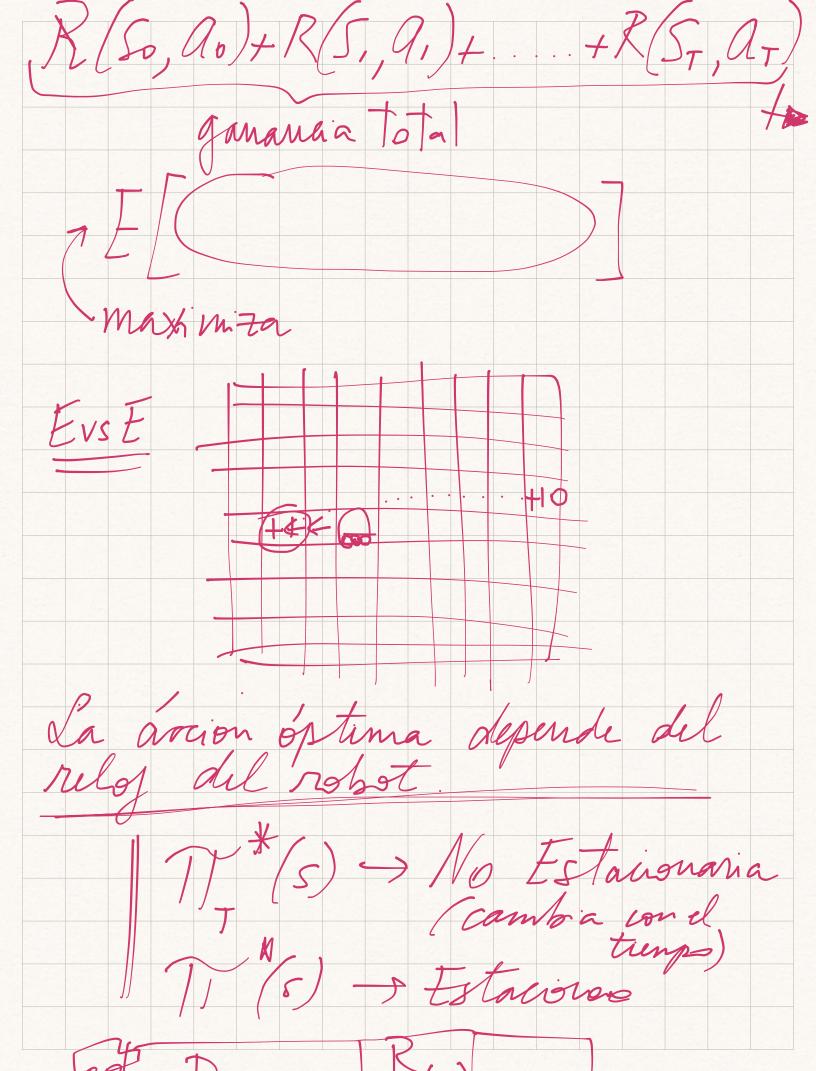
Ceneralizaciones del MDP 1) Recompensas Estado - Acción 2) florizonte Frinto (T) + (5, a) 3) Sistemes binanvos Lineales - Barndor Models (i) Recompensas Estato - acción \rightarrow \uparrow $SXA \rightarrow R$ $S_0 \xrightarrow{Q_0} S_1 \xrightarrow{Q_1} S_2 \dots$ $RS_0, A_0) + YRS_1, A_1) + YRS_2, A_2)$

(S) = max (R(s,a)+1) S Pak) (S) les recompus dependen the de H *(5)= argner R(5, 9) + (5) (5) (5) Z de Cenerelizaton: Horizonte Finito MDP 35, A, {Psa}, I, R f (Sin H) Ourponds la Gen 1ta



aron (+(5)=ER(St, at)+R(St+1, at+1) +...+ R/ST, AT)/TT, So-s] V+(s) = max P(s,a) + 5' Psa[5]

110 1 0 sey 19 $V_{t}(s) = \max_{a} R(s, a)$ Rogremoise Dihamila 3) St. St. Dinamiles Lineales =>MDP{S,A,Ba,T,R} =) S=/R d $\Rightarrow \mathcal{F}_{a} \rightarrow \mathcal{F}_{t+1} = \mathcal{F}_{t} + \mathcal{F}_{at} + \mathcal{F}_{t}$ 2 (14 N (0(5w)) = Recompensas audulticas R(5,a) = (-(5T/1,5++ a+ N+ a+

 $R(s,a) = -(1/s/1^2 + 1/a/1^2)$ Series de Taylor

 $S_{t+1} = f(S_t)$ $f(S_t) \approx f(\overline{S_t}) + f(\overline{S_t})(S_t - \overline{S_t})$ Caso St+1 = f (St, at) $S_{t+1} = f(S_{t}, a_{t})$ $+(\nabla_S + (\bar{S}_{t}, \bar{a}_{t})(S_{t} - \bar{S}_{t})$ + (Vaf() (At - Ax) Swig Welsunson, ute noticel