

2. There is a union fixed point
$$\exists x : f(x) = x.$$

Method to compute fixed points; -

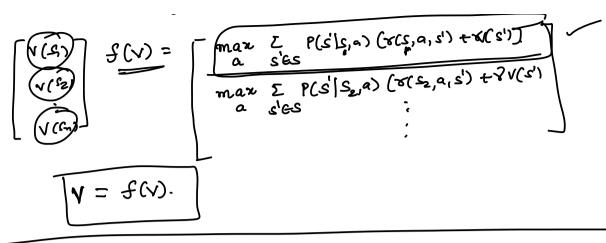
1.
$$x_o \in \mathbb{R}$$

2. Repeatedly apply 7' on Hest

$$x_0$$
, $f(x_0)$, $f(f(x_0))$, $f(x_0)$, $f(x_$

Value Steration 1-

1. Identify a function.



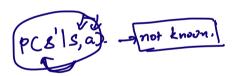
Exercise:
$$V_1, V_2; \rightarrow ||f(V_1) - f(V_2)|| \leq d.) ||V_1 - V_2||. \rightarrow$$
 Exercise $||f(V_1) - f(V_2)|| \leq d.$

- 1. Start with any Vo.
- 2. V; (S) < f(V;)(S)= max Z P(S')s,a)(*(S,a,s') +8 V(S')).
- Vo, X1, V2, N3, --- → V* გ.

La Value ateration scheme.

chapter 5:-

Model-free techniques.



Not known: - transition pool , Structure of rewerd,

M.c prediction:

c prediction:

Ly given a policy
$$\pi$$

Example determination is $s_1 a \rightarrow r(s_1 a)$ is fixed

Y (3) = $E \left[\sum_{t=0}^{\infty} x^t r(s_t, a) | s_0 = s_1, q_t \sim \pi \right]$.

