

- 1) VC Dimension:-
 H is the hypothesis. This hypothesis cannot shatter 6 points.
 Thus VC dimension of $H = 5$

2) b)

$$\pi(a'/s') = 0$$

$$\pi(a'/s^2) = 0$$

$$\pi(a^2/s') = 0$$

$$\pi(a^2/s^2) = 1$$

Best policy is given by $\pi(a^2/s^2)$

a) $V_{\pi}(s_1) = 1.191$