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$$1) P(s_1 | s_0, a_2) -$$

Given an agent in state 0 and takes action 2, what is the probability it will go to state 1.

2) Policy ( $\pi$ ) - is a rule under which agent takes different actions.  
 $\pi \rightarrow P(a|s)$  : probability of taking action  $a$ , given agent is in state  $s$

optimal policy ( $\pi^*$ ) - under this agent takes all best actions that maximizes the long term return/reward.

$$3) V_{\pi}(s) > V_{\pi^*}(s) : \text{FALSE}$$

## 4) Bellman Equation

