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Week 9 Quiz

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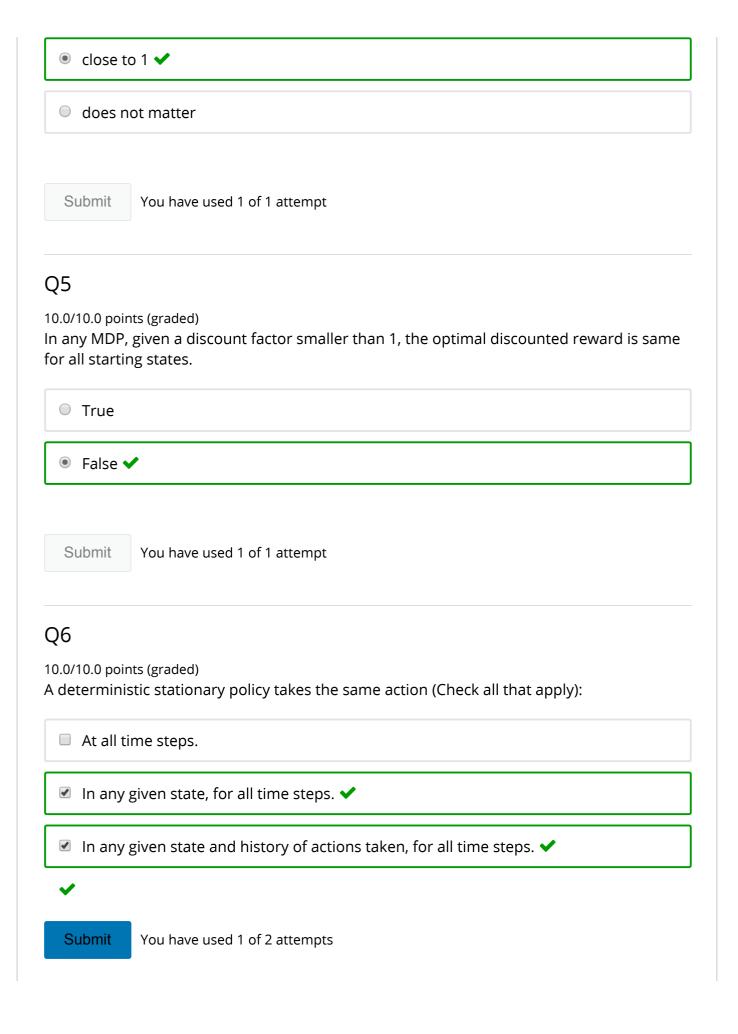
Q1

10.0/10.0 points (graded)

What are the five essential parameters that define an MDP? Check all that apply:

- ✓ state space ✓ state model action space transition model ✓ starting state ✓ action state ✓ reward distribution ✓ Submit You have used 1 of 2 attempts **1** Answers are displayed within the problem
- Q2

10.0/10.0 points (graded) n an MDP with finite state space consisting of n states and finite action space consisting o n actions, what is the dimension of the transition probability matrix?	
○ n^3 m	
● n^2 m	✓
○ m^2 n	
○ m*2 n	
Submit	You have used 1 of 1 attempt
an vary dep	nts (graded) he transition probability distribution of next state for a given state and action bending on the past history of actions and rewards.
O True	
·	
● False >	
● False ◆ Submit	You have used 1 of 1 attempt
Submit Q4 0.0/10.0 poir	You have used 1 of 1 attempt

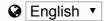


Answers are displayed within the problem
Q7
10.0/10.0 points (graded) For every MDP, there exists a stationary policy whose expected discounted reward for every starting state is at least as good as that of any other policy.
● True ✔
O False
Submit You have used 1 of 1 attempt
Q8
10.0/10.0 points (graded) Bellman optimality equations suggest that in every state, the optimal action to take is the one that maximizes immediate expected reward.
O True
● False ✔
Submit You have used 1 of 1 attempt
Q9 10.0/10.0 points (graded)

● True ✓● False	
he three sta as Fallen, n	ts (graded) three state MDP discussed in the lecture, modeling a robot learning to walk ates were 'Fallen', 'Standing' and 'Moving'). Suppose now that once the robot o action (fast or slow) can take the robot out of the Fallen state. What will be n probability vector for state "Fallen" and action "slow"?
0 [1 1 0]	
[1 0 0]	✓
O [1 0 1]	
O [0 0 1]	
0 [0 1 0]	
Submit	You have used 1 of 1 attempt

If the discount factor is 0, then Bellman optimality equations suggest that in every state, the





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