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## hw4\_mdps\_q10\_mdp\_properties

Question 10.1: MDP Properties

5/5 points (ungraded)

Which of the following statements are true for an MDP?

- If the only difference between two MDPs is the value of the discount factor then they must have the same optimal policy.
- For an infinite horizon MDP with a finite number of states and actions and with a discount factor  $\gamma$  that satisfies  $0<\gamma<1$ , value iteration is guaranteed to converge.
- When running value iteration, if the policy (the greedy policy with respect to the values) has converged, the values must have converged as well.
- None of the above



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✓ Correct (5/5 points)

## Question 10.2: MDP Properties Continued

5/5 points (ungraded)

Which of the following statements are true for an MDP?

If one is using value iteration and the values have converged, the policy must have converged as well.

Expectima MDP.	x will generally run in the same amount of time as value iteration on a given
	nite horizon MDP with a finite number of states and actions and with a actor $\gamma$ that satisfies $0<\gamma<1$ , policy iteration is guaranteed to converge.
□ None of th	ne above
<b>~</b>	
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✓ Correct (5/	/5 points)

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