8. Q-value Iteration

Exercises due May 3, 2023 08:59 -03 Completed

Q-value Iteration

0:00 / 0:00 1.0x

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The derivation of the Q-value iteration update rule from the equation above is similar to value iteration update rule.

First, recall the Bellman equations:

$$V^*(s) = \max_a Q^*(s,a)$$

$$Q^*(s,a) = \sum_{s'} T(s,a,s')\Big(R(s,a,s') + \gamma V^*(s')\Big).$$

Plugging first equation into the second, we get:

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