

ASSIGNMENT 6

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The value iteration backup is:

$$V_{k+1}(s) = \max_a \sum_{s', r} p(s', r | s, a) [r + \gamma V_k(s')]$$

If we switch to action values, the equation becomes the following:

$$q_{k+1}(s, a) = \sum_{s', r} p(s', r | s, a) [r + \gamma \max_{a'} q_k(s', a')]$$