

## Q - Learning Tasks

Date: \_\_\_\_\_

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Compute max of  $Q(3,2)$  and  $Q(3,4)$  and submit it.  
Next state from 2 is 3 and for 4 is 0, 2, 3.

$$\begin{aligned} Q(3,2) &= R(3,2) + 0.8 * \max [Q(2,3)] \\ &= 0 + 0.8 * (0) \\ &= 0 + 0 \\ &= 0 \end{aligned}$$

$$\begin{aligned} Q(3,4) &= R(3,4) + 0.8 * \max [Q(4,0), Q(4,2), Q(4,3)] \\ &= 0 + 0.8 * \max [0, 0, 0] \\ &= 0 + 0.8 * (0) \\ &= 0 + 0 \\ &= 0 \end{aligned}$$