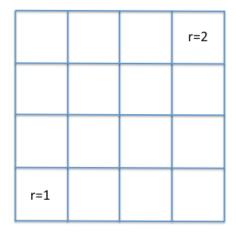
Assignment 7:

Due Nov 28, 2016, 4pm by email to dalhousieml2016@gmail.com with subject line A7.

1. Fill in the Q values for each state-action entry for the following grid problem:



- 2. Explain briefly **the difference** (don't just explain each algorithm) between the four basic value-based RL algorithms
 - a. Policy Iteration
 - b. Value (Q) Iteration
 - c. SARSA
 - d. Q-learning
- 3. What is the basic assumption of the Naïve Bayes algorithm?
- 4. Explain briefly the EM algorithm
- 5. Given three classes where each class has feature values that are Gaussian distributed around a different mean for each class, which method would you use to classify them? Argue for your choice.
- 6. Name and briefly explain 3 different unsupervised learning algorithms. (I recommend that you try to answer this before googeling it as Google can't help you in the final exam)
- 7. What is an autoencoder. Explain this methods and possible applications.