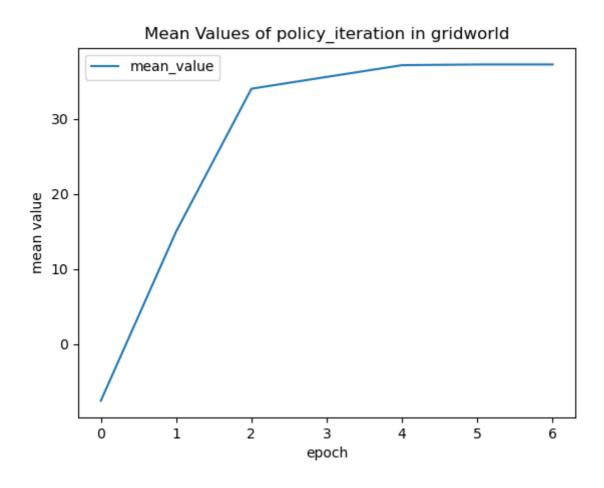
Result - Mike Liu xl142

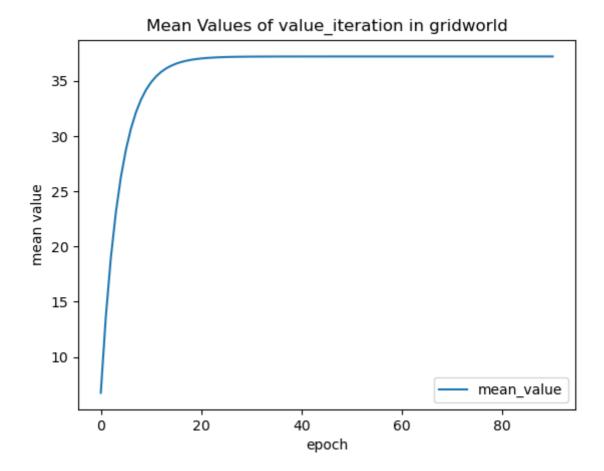
Learning curves

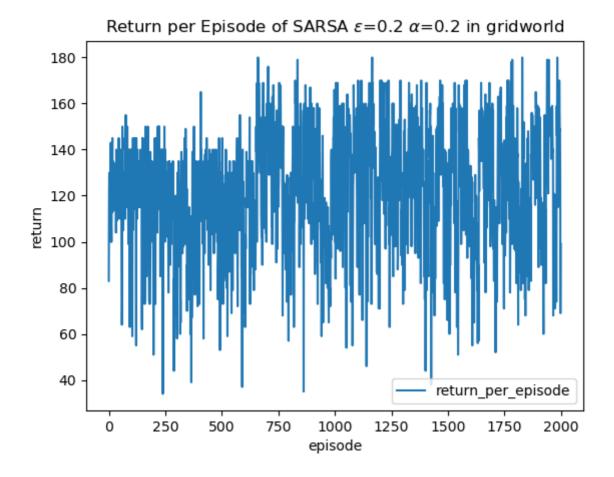
Gridworld

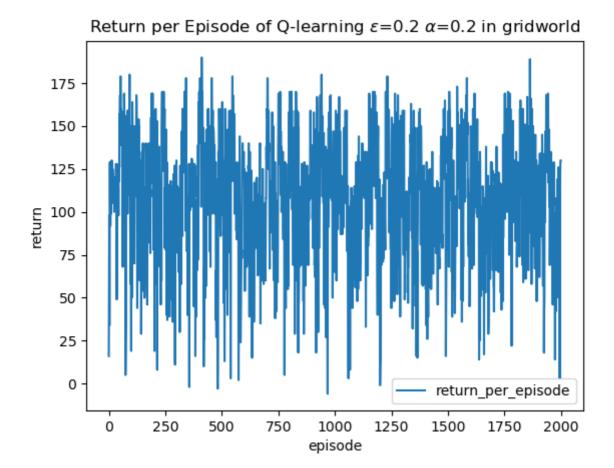
Policy iteration



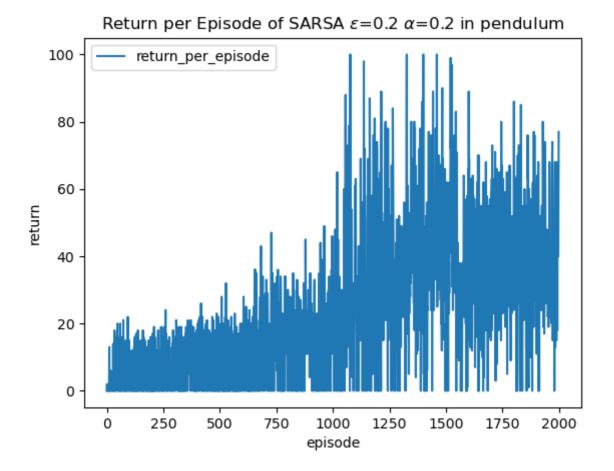
Value iteration

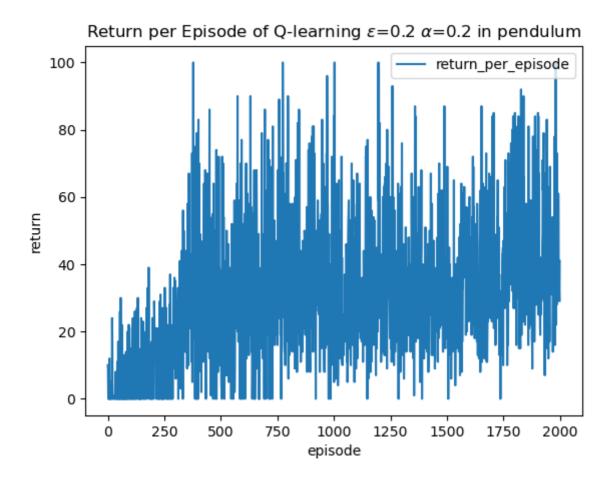






Pendumlum





Learning curves for different values of ϵ

Gridworld

SARSA

![sarsa_eps_gridworld](./figures/Return per episode for different epsilon in gridworld of SARSA.png)

Q-learning

![qlearning_gridworld](./figures/Return per episode for different epsilon in gridworld of Q-learning.png)

Pendulum

SARSA

![sarsa_eps_pendulum](./figures/Return per episode for different epsilon in pendulum of SARSA.png)

Q-learning

![qlearning_eps_pendulum](./figures/Return per episode for different epsilon in pendulum of Q-learning.png)

Learning curves for different values of α

Gridworld

SARSA

![sarsa_alpha_gridworld](./figures/Return per episode for different alpha in gridworld of SARSA.png)

Q-learning

![qlearning_alpha_gridworld](./figures/Return per episode for different alpha in gridworld of Q-learning.png)

Pendulum

SARSA

![sarsa_alpha_pendulum](./figures/Return per episode for different alpha in pendulum of SARSA.png)

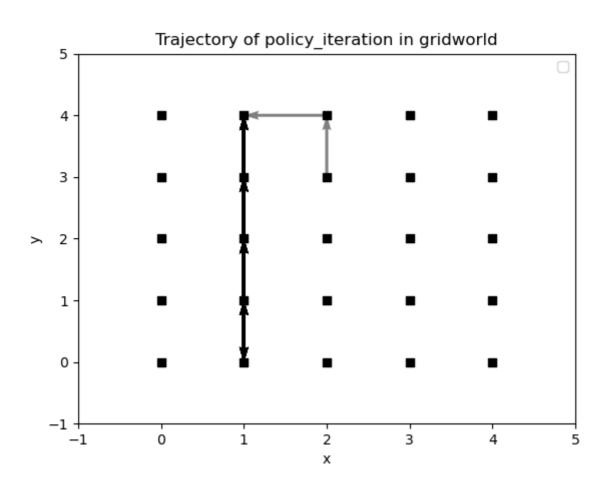
Q-learning

![qlearning_alpha_pendulum](./figures/Return per episode for different alpha in pendulum of Q-learning.png)

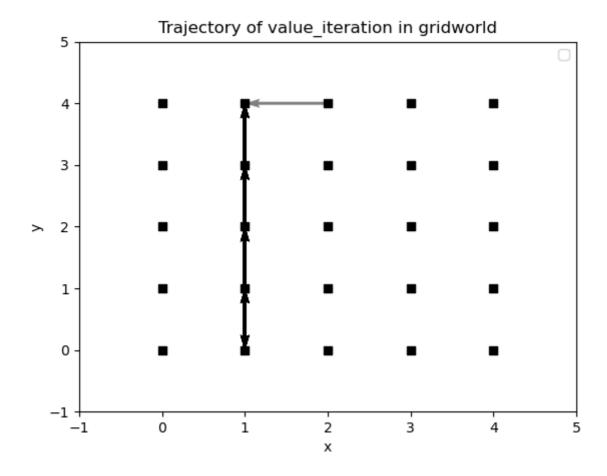
Example Trajectories

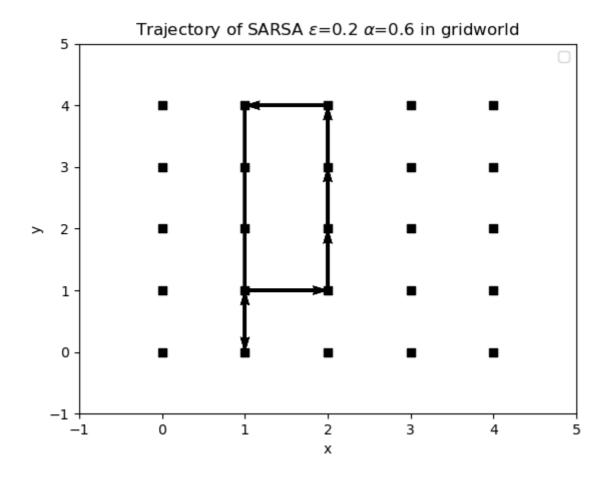
Gridworld

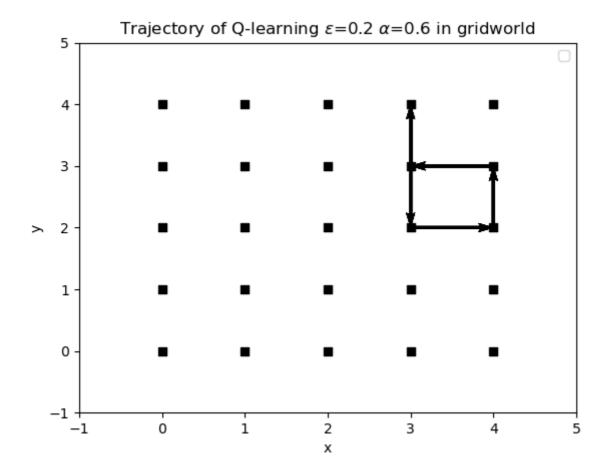
Policy iteration



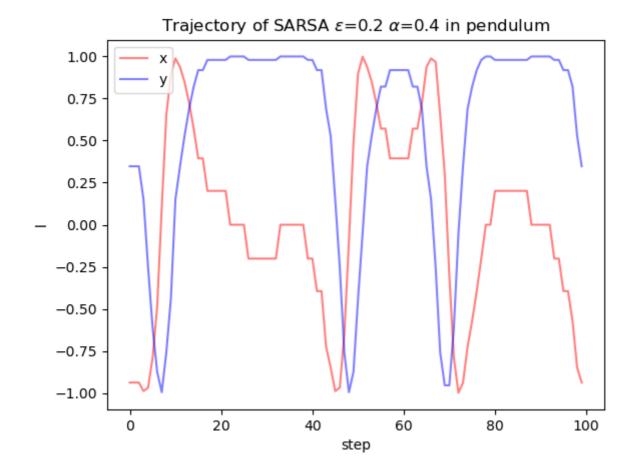
Value iteration

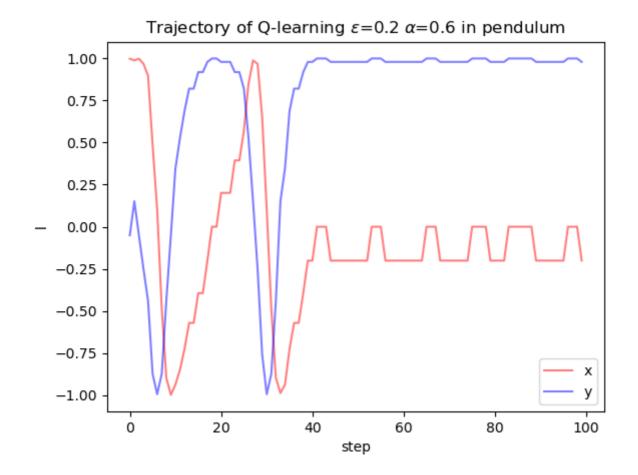






Pendulum

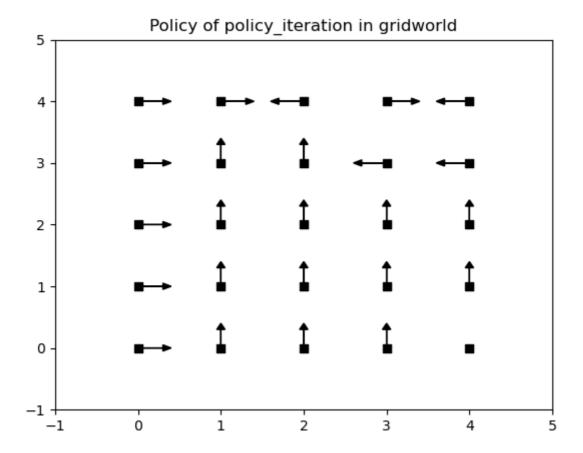




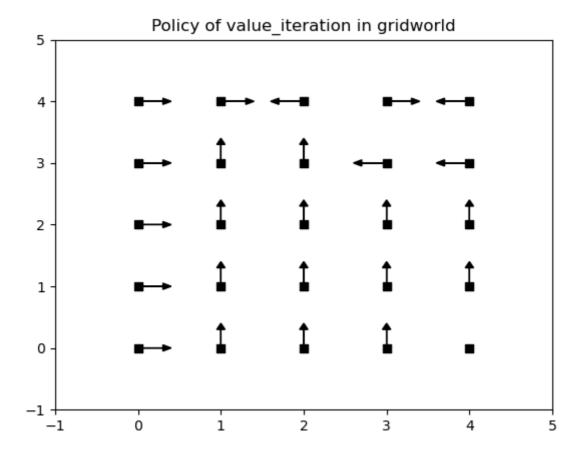
Policy

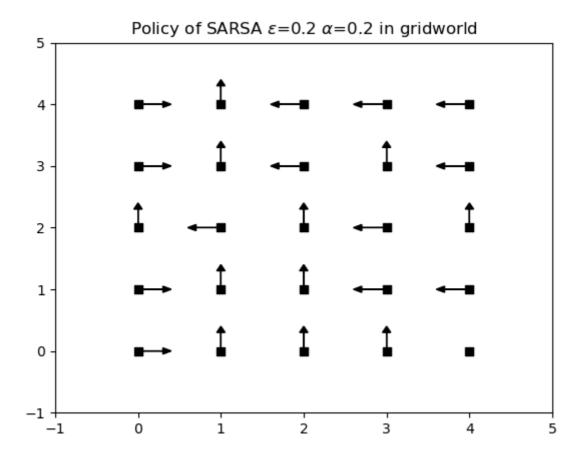
Gridworld

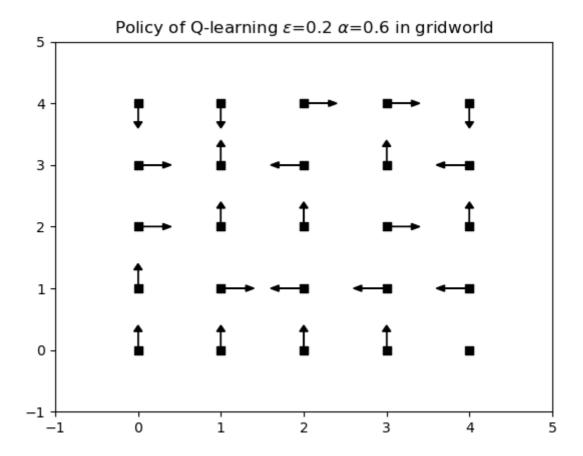
Policy iteration



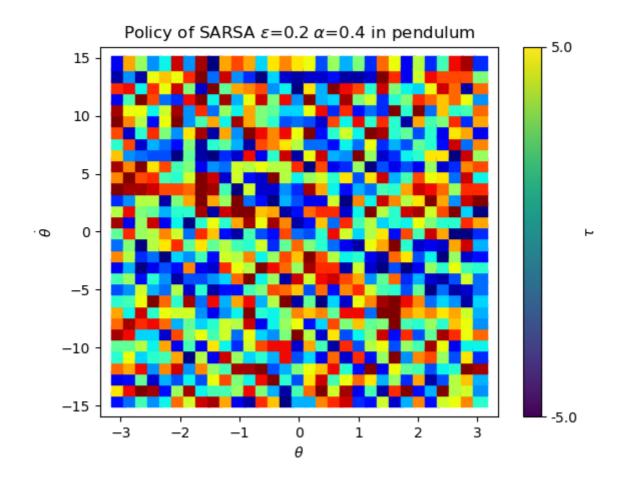
Value iteration

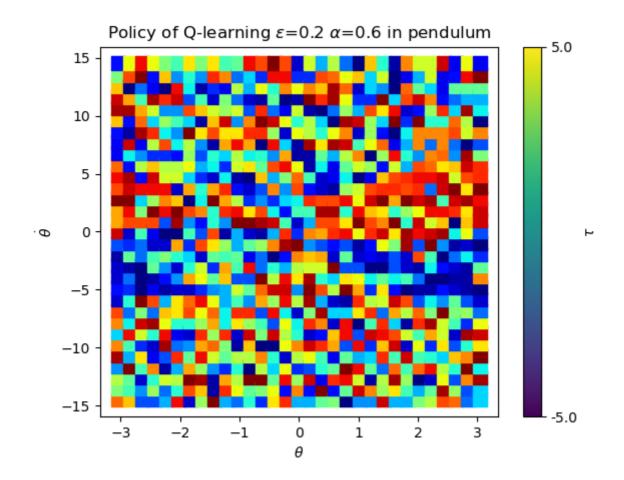






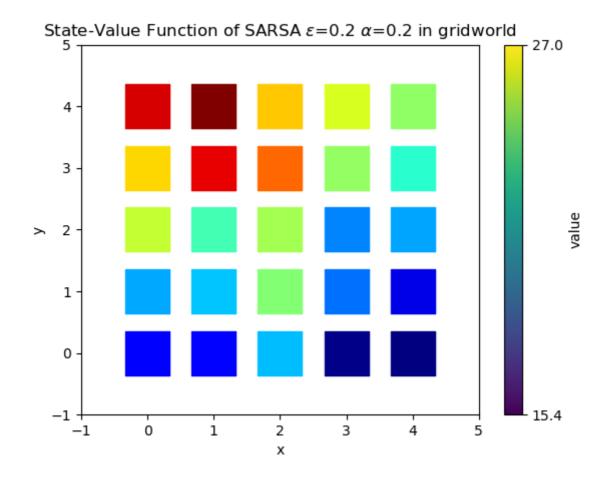
Pendulum

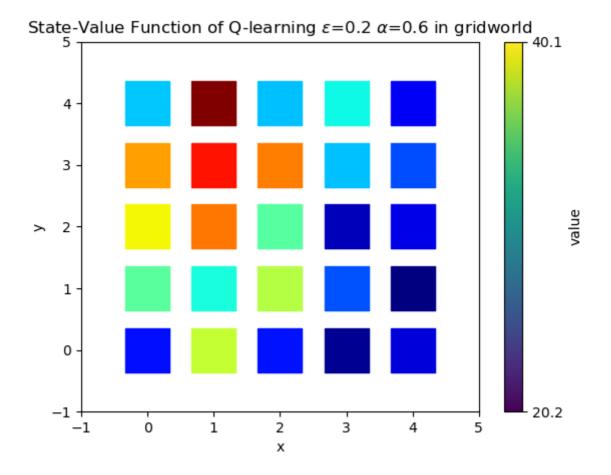




State-Value Function

Gridworld





Pendulum

