Assignment 4: Model-Based RL and Exploration

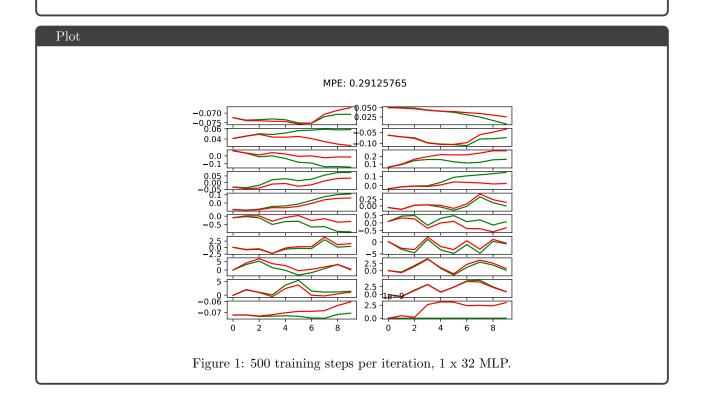
Andrew ID: mukaiy

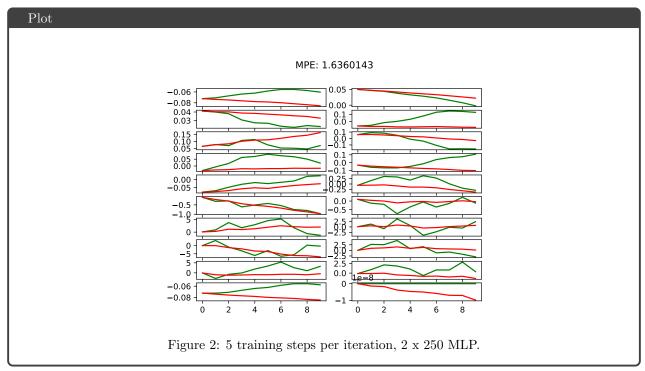
NOTE: Please do NOT change the sizes of the answer blocks or plots.

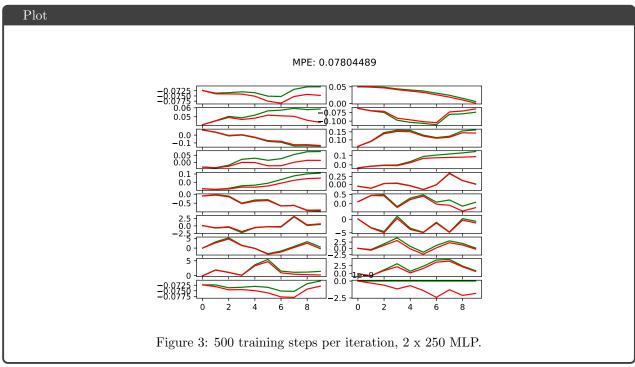
1 Problem 1: Dynamics Model Training – [10 points total]

Theory questions

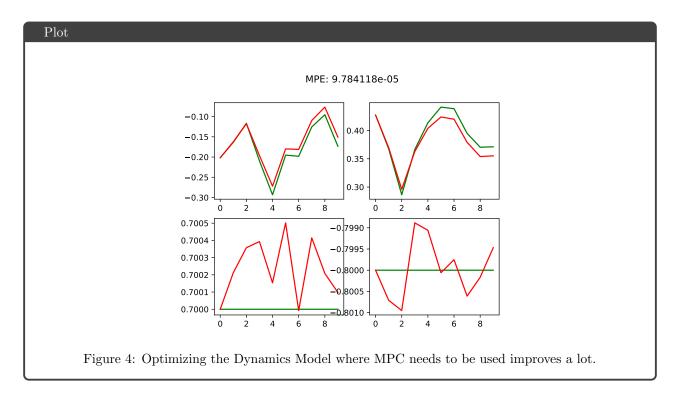
The third model performs the best, because it achieves the least MPE = 0.07804489. More training steps per iteration improves convergence a lot, and larger MLP interpolates better.



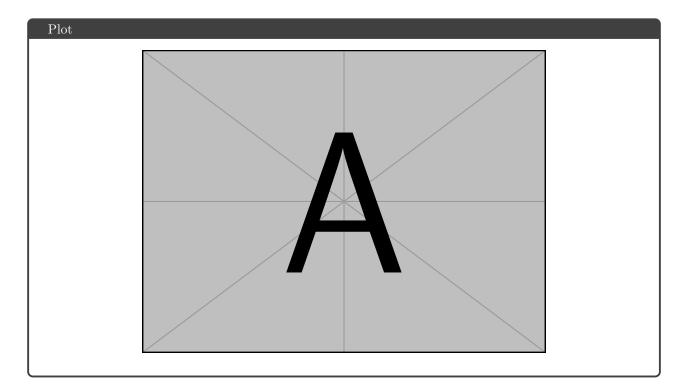


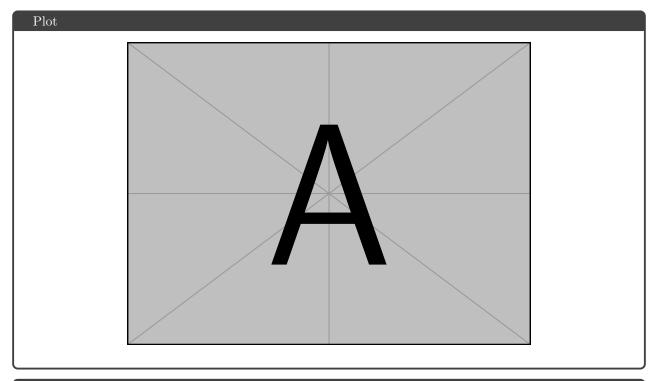


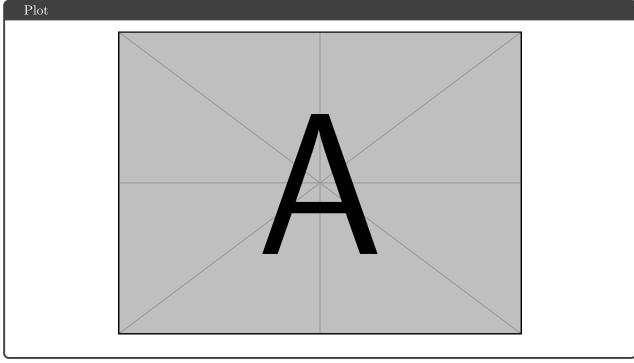
2 Problem 2: Action Selection



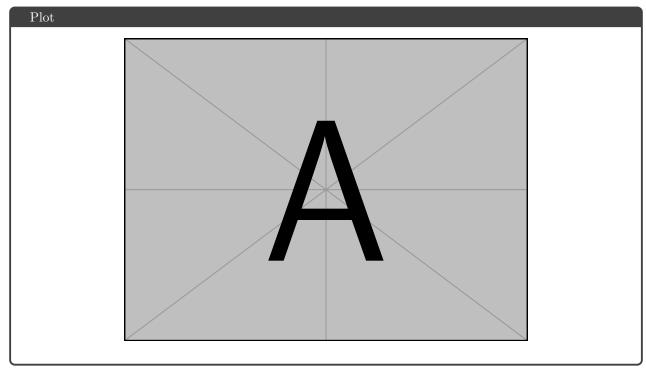
3 Problem 3: Iterative Model Training

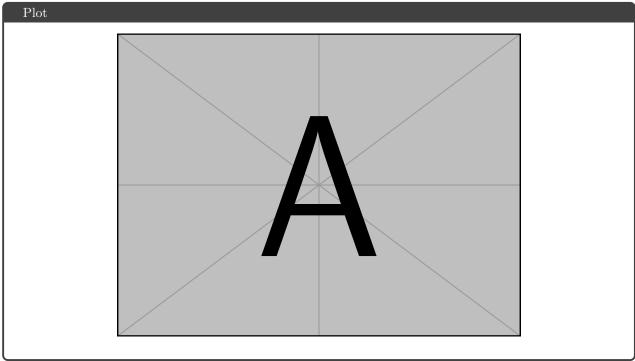


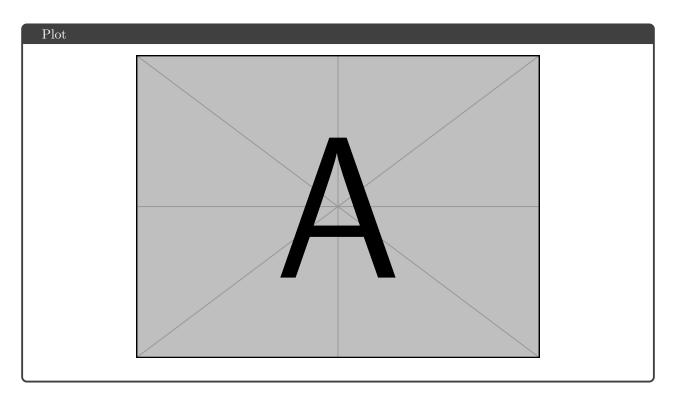




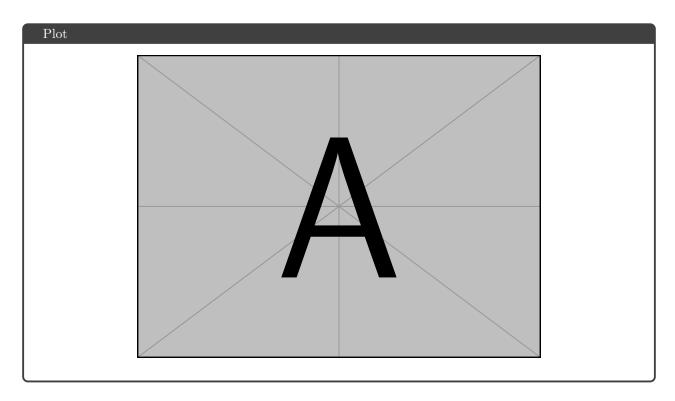
4 Problem 4: Hyper-parameter Comparison







5 Problem 5: Hyper-parameter Comparison (Bonus)



6 Problem 6: Exploration (Bonus)

