

## Assignment 4: Model-Based RL and Exploration

**Andrew ID:** Write your Andrew ID here.

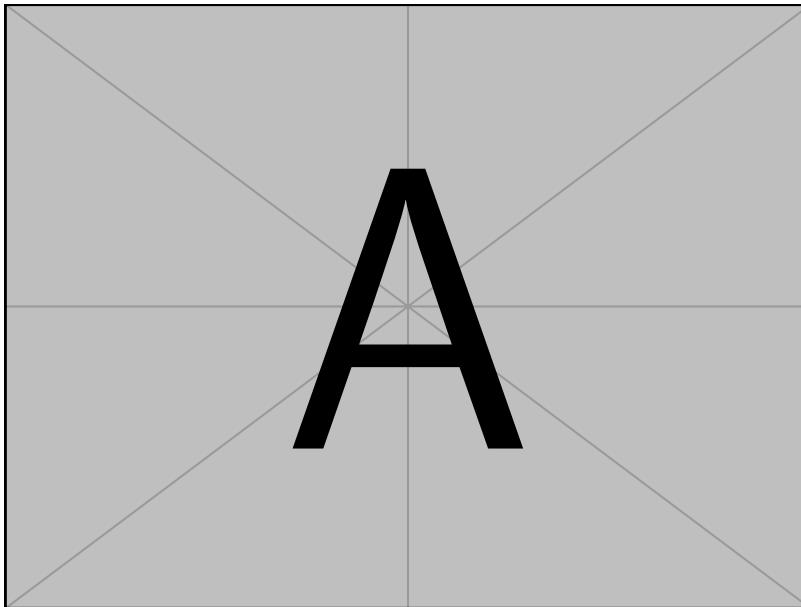
**Collaborators:** Write the Andrew IDs of your collaborators here (if any).

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

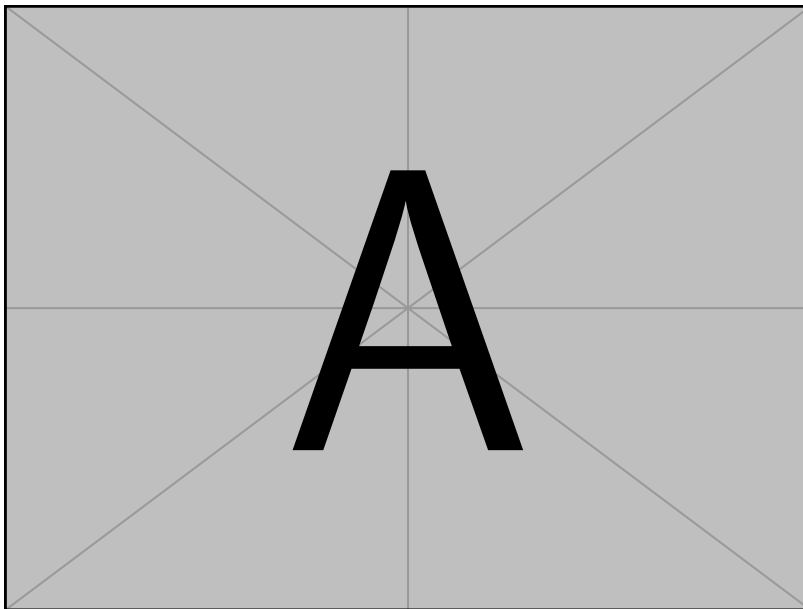
### 1 Problem 1: Dynamics Model Training [4pts]

Answer to theory questions.

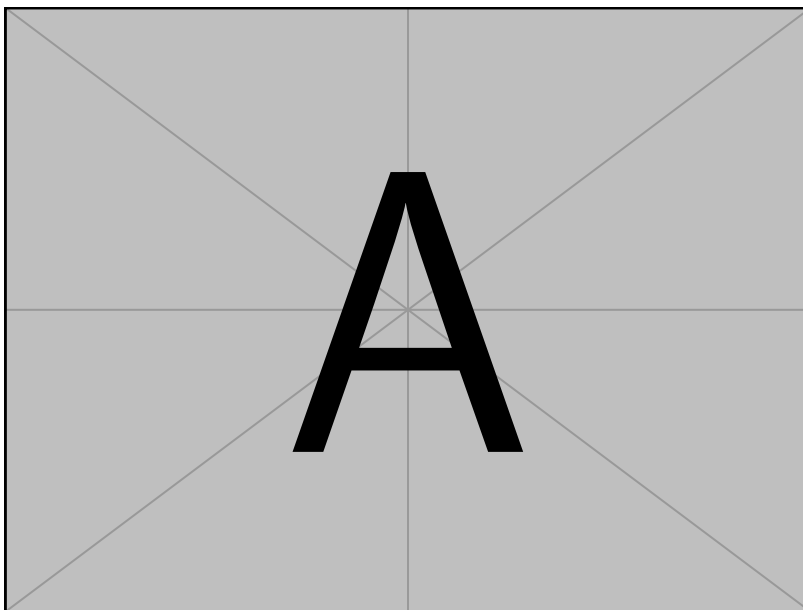
Plot 1



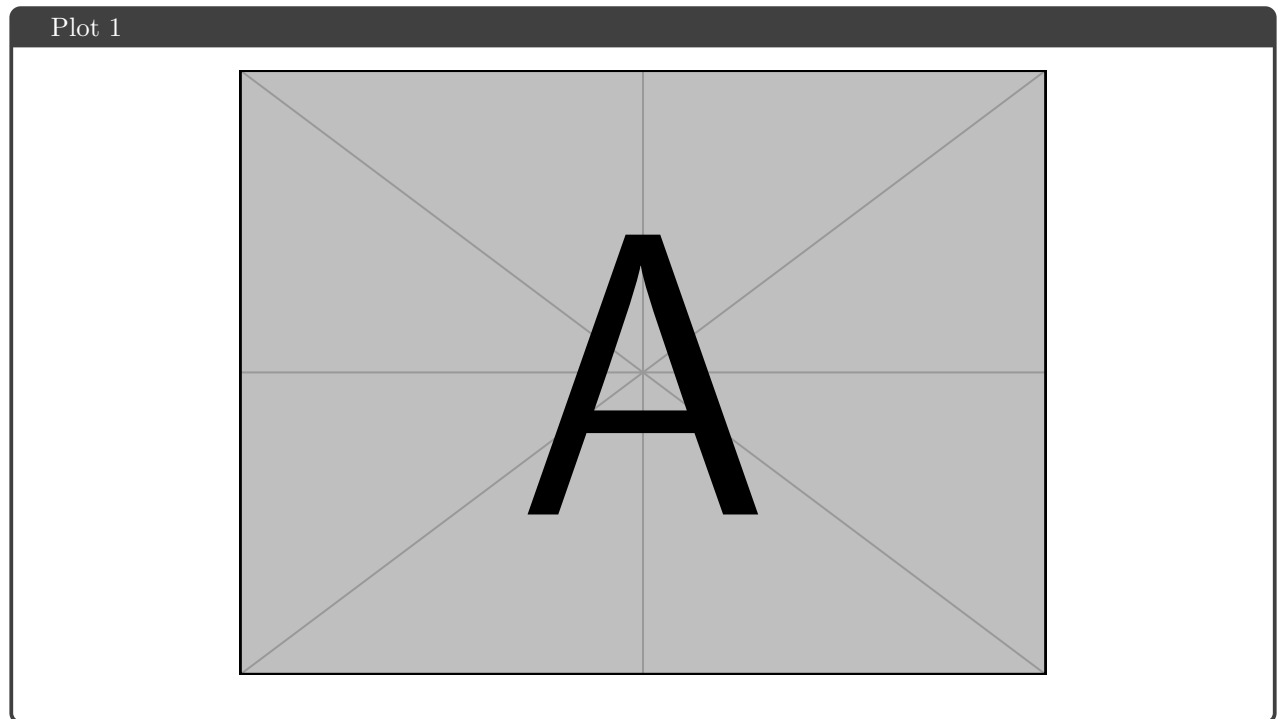
Plot 2



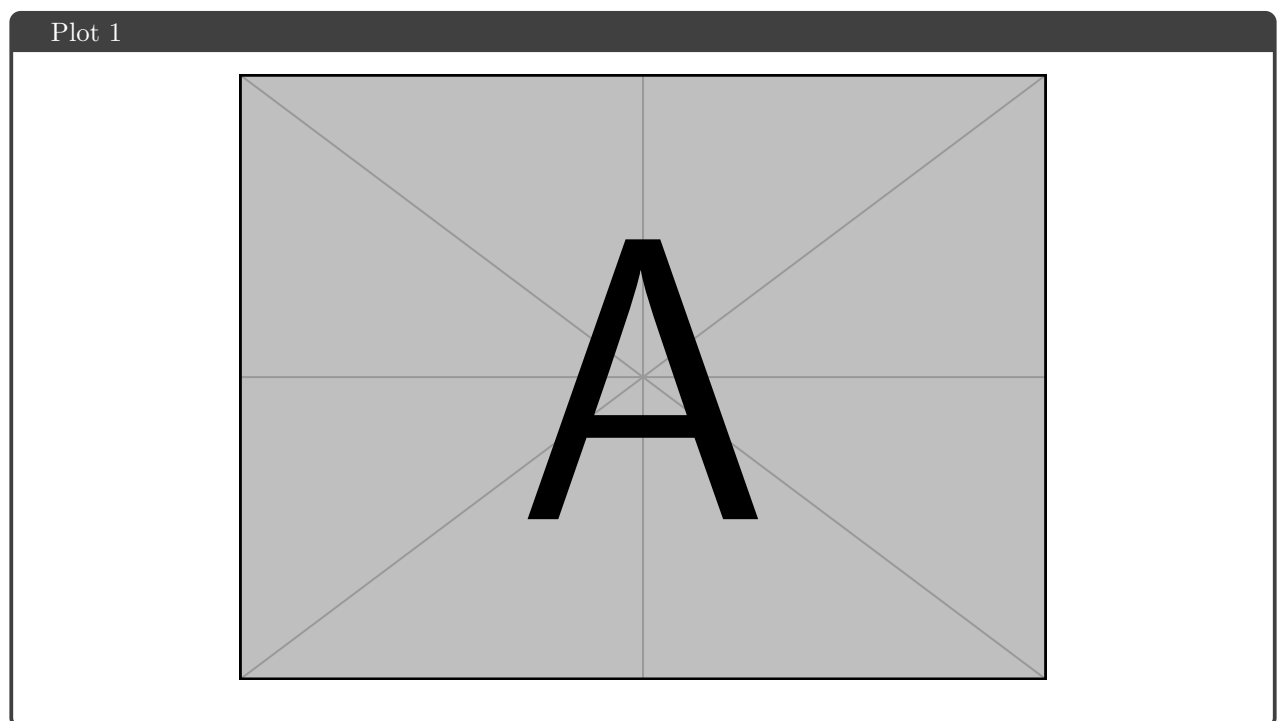
Plot 3



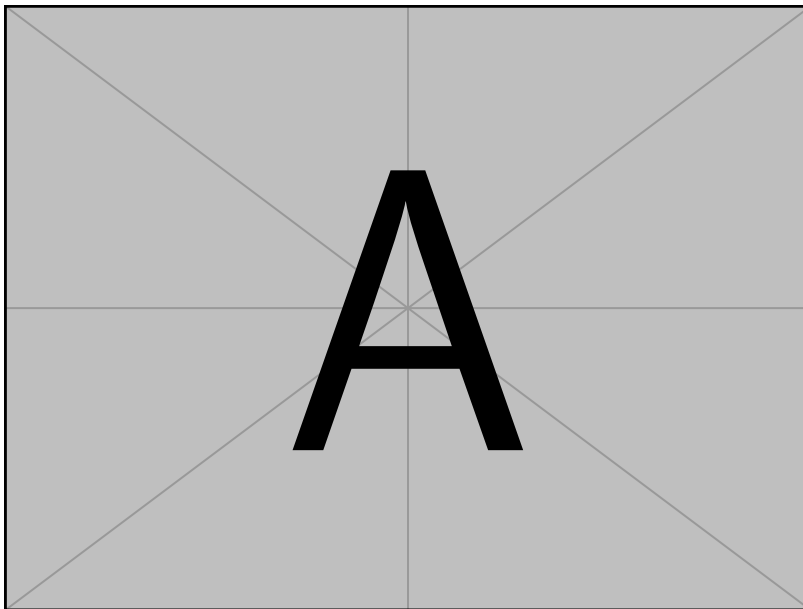
## 2 Problem 2: Action Selection [4pts]



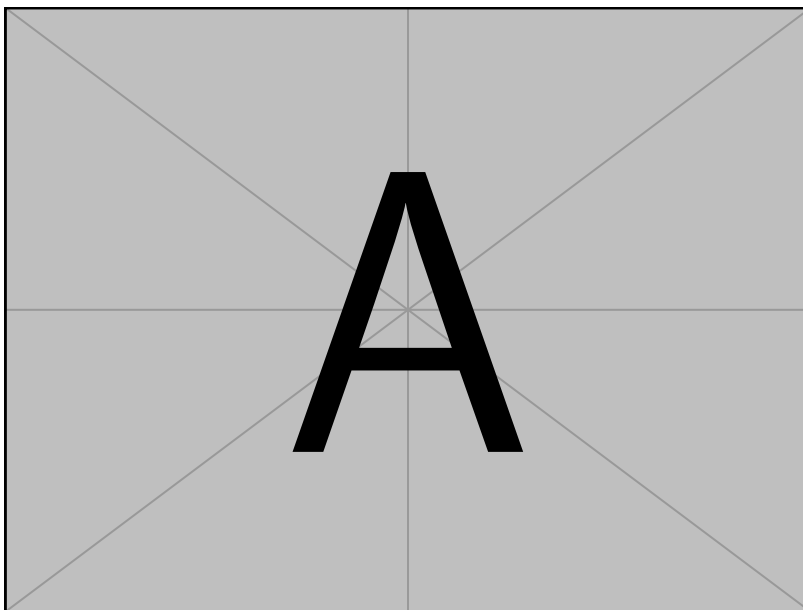
## 3 Problem 3: Iterative Model Training [3pts]



Plot 2

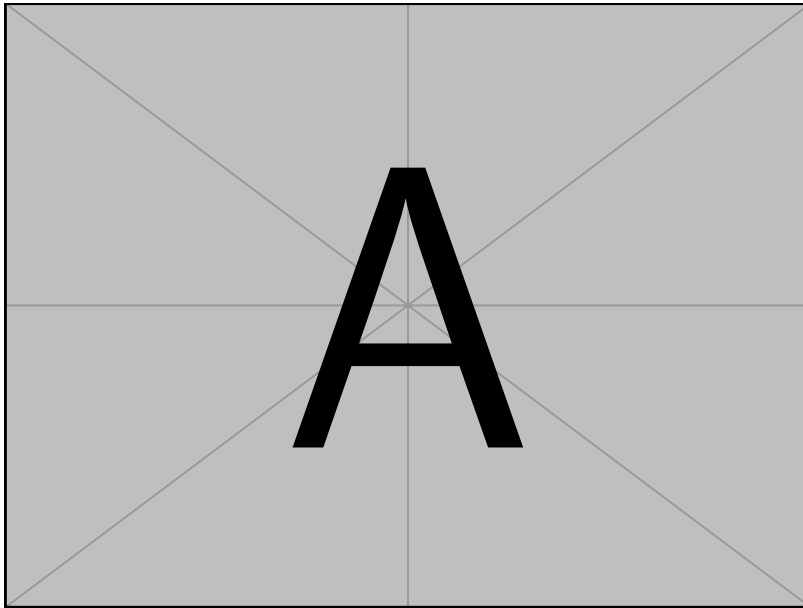


Plot 3

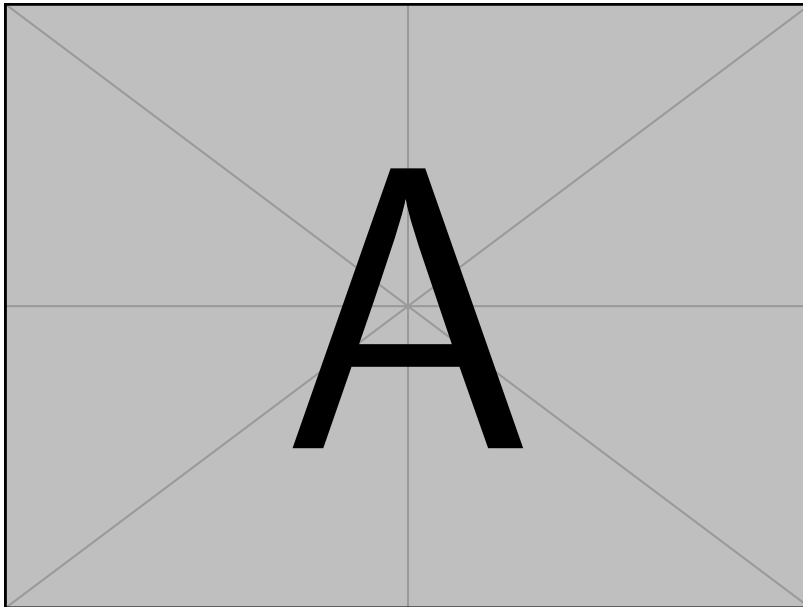


#### 4 Problem 4: Hyper-parameter Comparison [4pts]

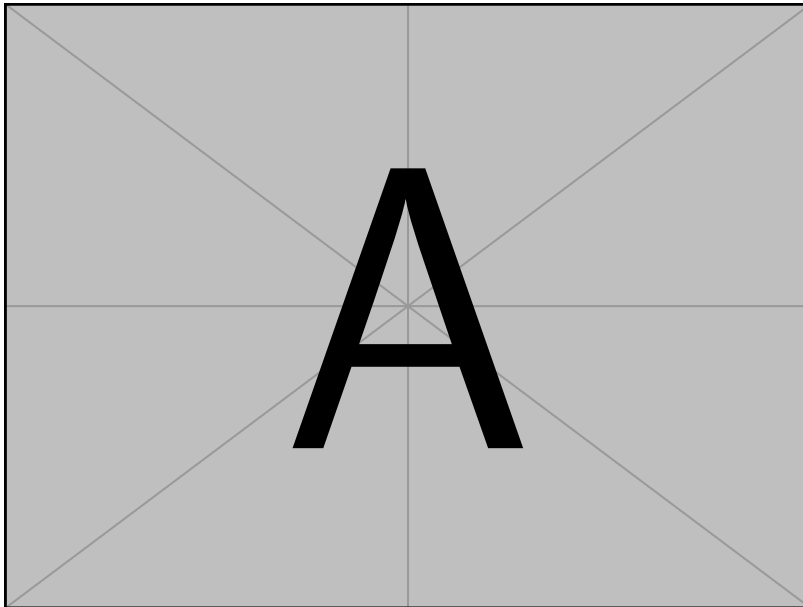
Plot 1



Plot 2

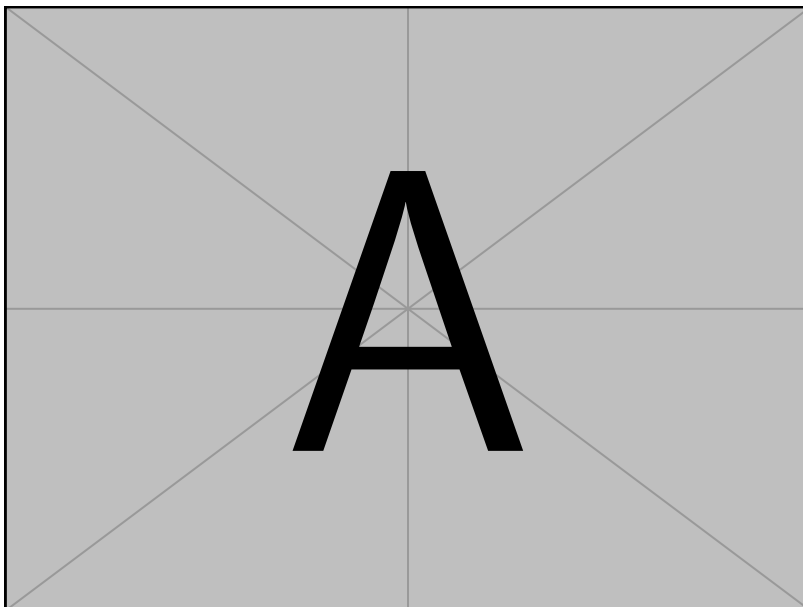


Plot 3

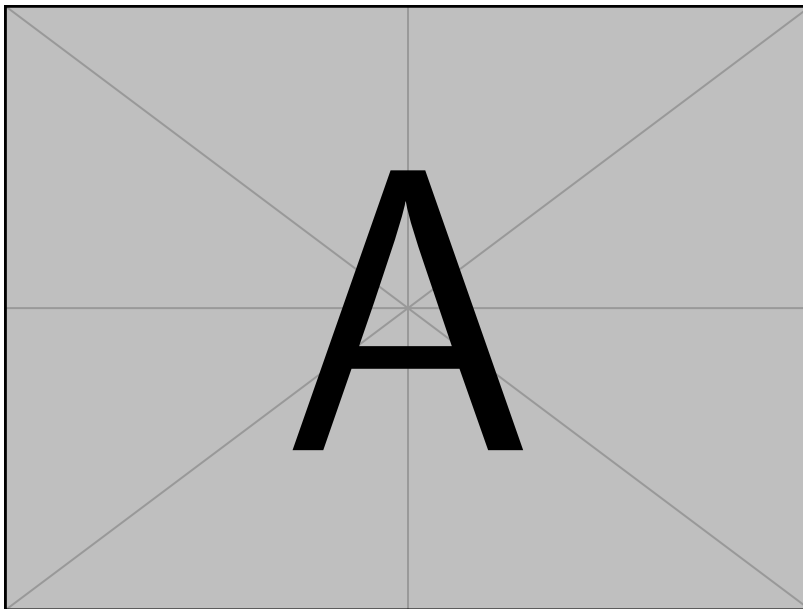


## 5 Problem 5: CEM (Bonus) [3pts]

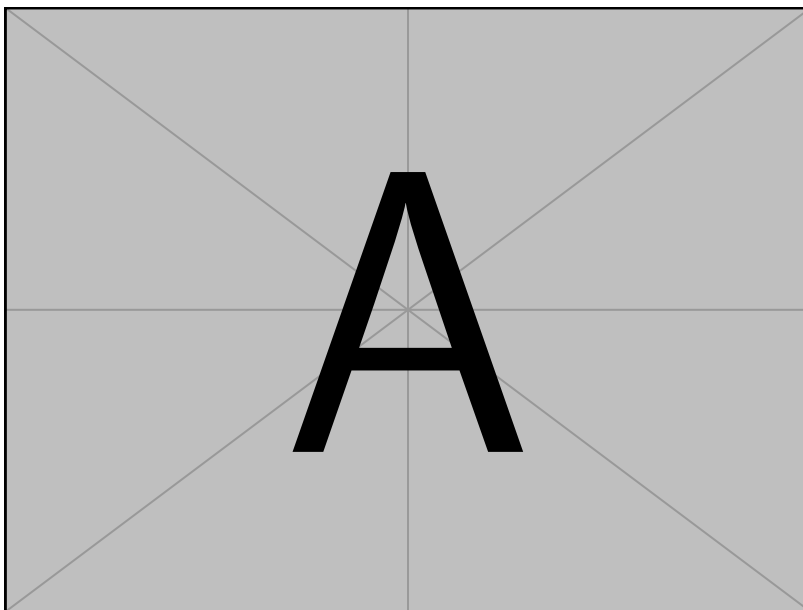
Plot 1



Plot 2

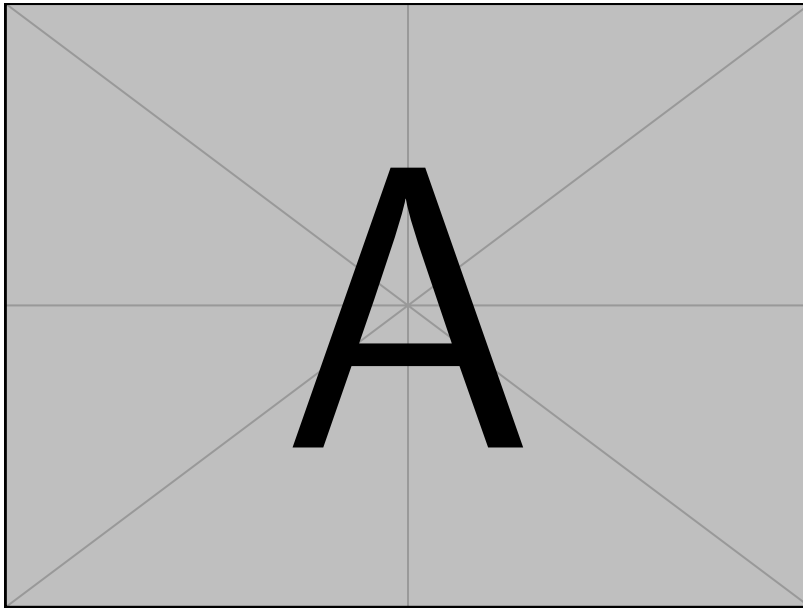


Plot 3

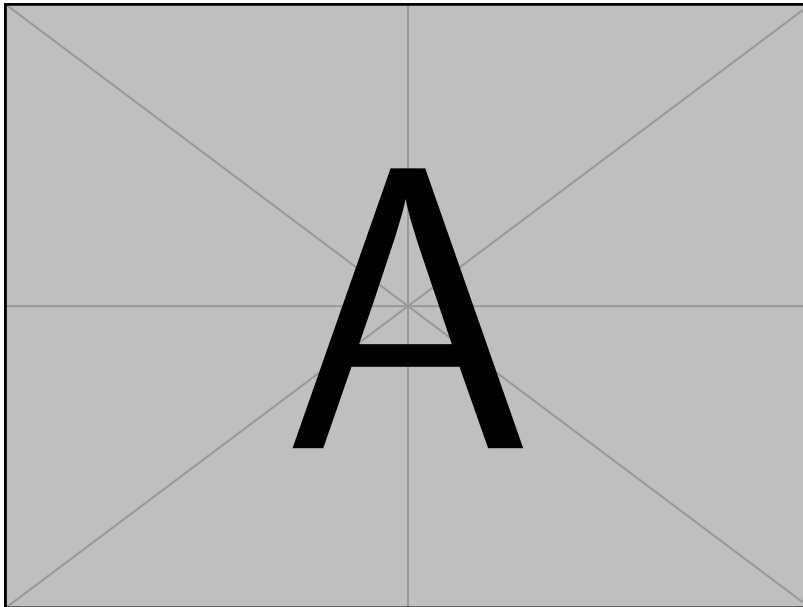


## 6 Problem 6: Exploration (Bonus) [3pts]

Plot 1

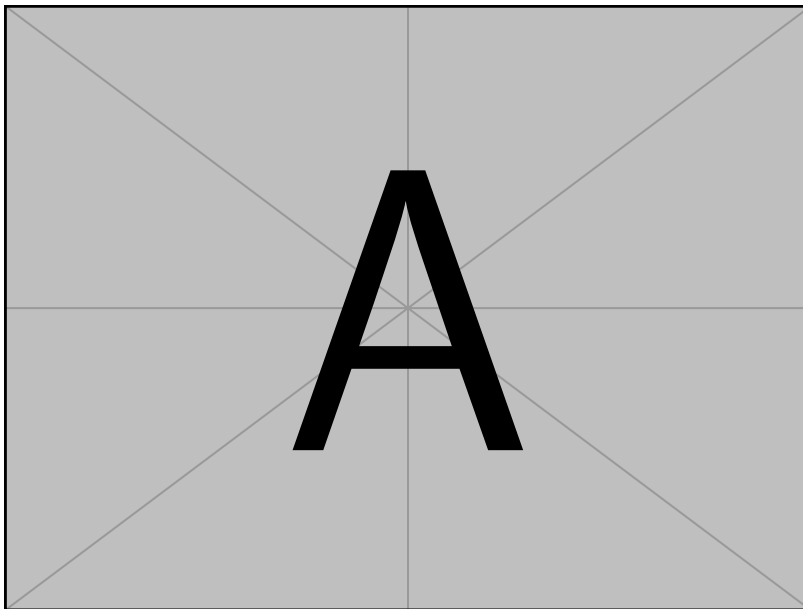


Plot 2





Plot 3



Plot 4

