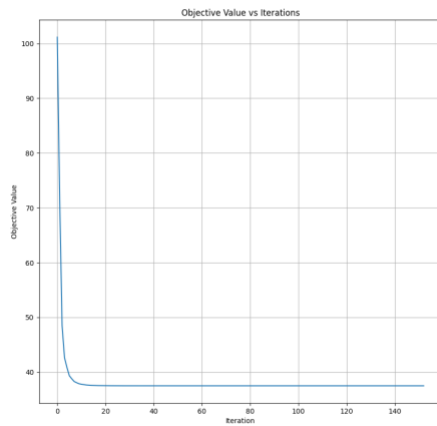
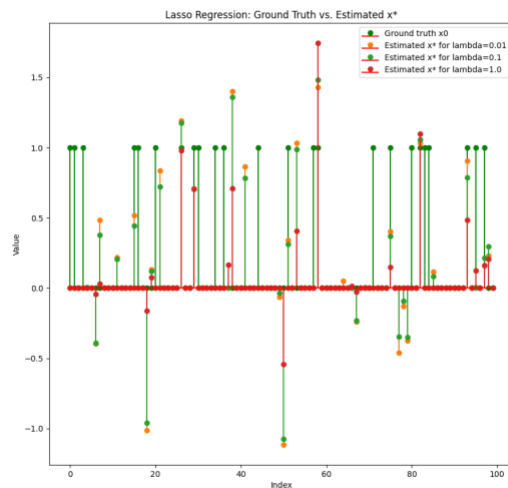


Problem 3

Part C



Part F



Problem 4

Generated Example:

```
y_1 = 1.302983480245089
```

```
w* = [ 0.49671415 -0.1382643  0.64768854  1.52302986 -0.23415337 -0.23413696  
1.57921282  0.76743473 -0.46947439  0.54256004 -0.46341769 -0.46572975  
0.24196227 -1.91328024 -1.72491783 -0.56228753 -1.01283112  0.31424733  
-0.90802408 -1.4123037 ]
```

```
X_1 = [ 1.46564877 -0.2257763  0.0675282 -1.42474819 -0.54438272  0.11092259  
-1.15099358  0.37569802 -0.60063869 -0.29169375 -0.60170661  1.85227818  
-0.01349722 -1.05771093  0.82254491 -1.22084365  0.2088636 -1.95967012  
-1.32818605  0.19686124]
```

```
epsilon_1 = 3.169186787416377
```

Least Squares Estimation Error: 0.726222422795486

Least Absolute Deviations Estimation Error: 0.5642178291022407