```
Bryan Hess: 4259226
ps7-1-b.)
Accuracy of P: 98.00%
ps7-2-b.)
J Table =
  3×2 table
    λ
           J
    0 0.20253
    1
         1.0751
         1.9476
ps7-3.)
g_prime =
    0.0000
    0.2500
    0.0000
ps7-4.)
```

Alpha: 0.010

ECE 1395 Problem Set 7

ps7-5.)

Accuracy_t	able =			
4×5 <u>tabl</u>	<u>e</u>			
λ	Training Data Accuracy 50 Epoch	ns Testing Data Accuracy 50 Epoch	s Training Data Accuracy 100	Epochs Testing Data Accuracy 100 Epochs
0	67.969	59.091	96.094	90.909
0.01	67.188	86.364	83.594	95.455
0.1	67.969	59.091	64.844	77.273
1	67.969	59.091	64.844	77.273
Cost_table	=			
4×5 <u>tabl</u>	<u>e</u>			
λ	Training Data Cost 50 Epochs	Testing Cost Accuracy 50 Epochs	Training Data Cost 100 Epochs	Testing Data Cost 100 Epochs
0	0.99834	1.0002	0.91801	0.8858
0.01	0.96732	0.89633	0.93093	0.87671
0.1	0.9946	1.1291	1.1424	1.0275
1	1.1422	1.8663	1.2714	1.9533

The accuracies are volitile on each run, however the costs stay relatively consistant.