ECE 1395 Problem Set 3

Bryan Hess: 4259226

ps3-1-a.)

```
ps3-1-a.)
Size of X:
ans =

    100     3


Size of y:
ans =

    100     1
```
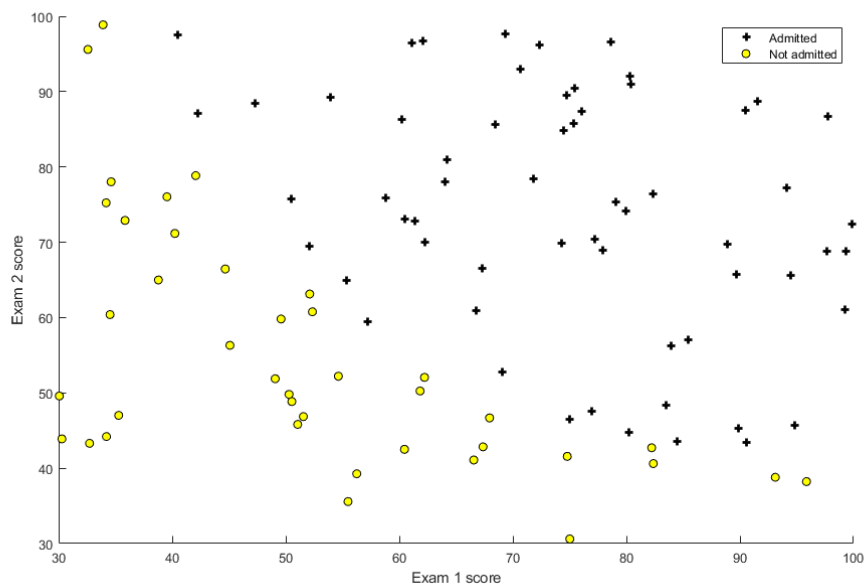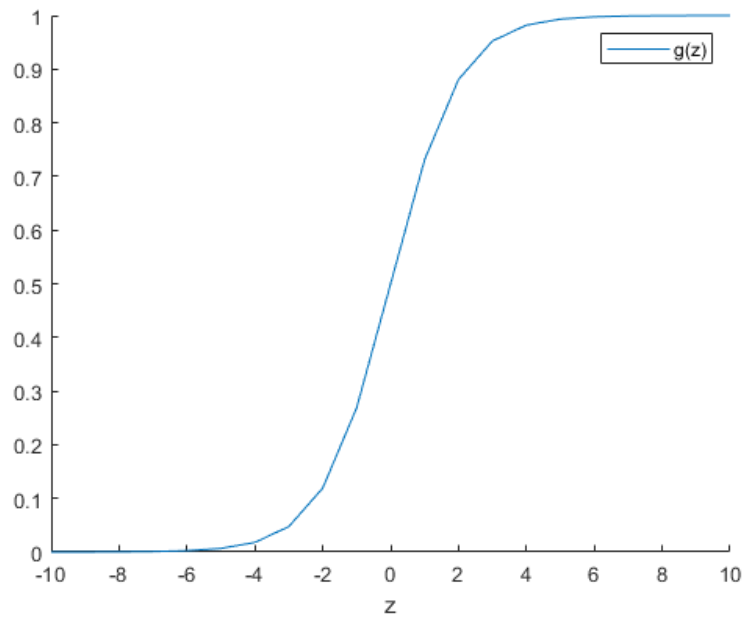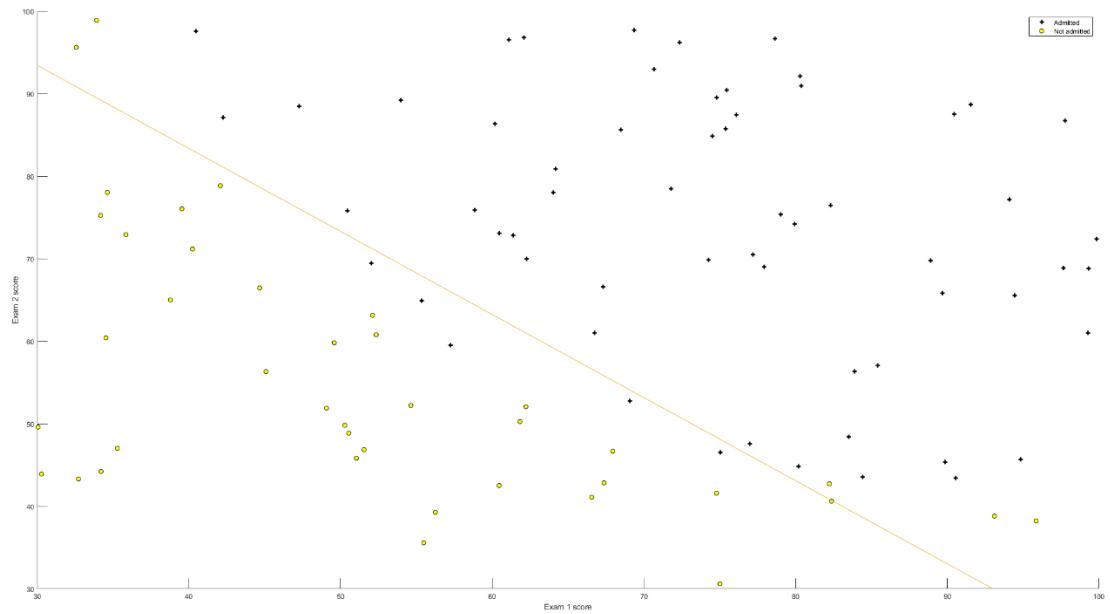
ps3-1-b.)

ps3-1-d.)

ps3-1-e.)

```
ps3-1-e.)
Cost of toy data: 6.931472e-01
```

ps3-1-f.)

```
Cost of train data: 2.018925e-01
Thetas
traintheta =

  -25.5400
    0.2065
    0.2046
```

ps3-1-g.)

ps3-1-i.)

```
ps3-1-i.)
Probability of admission: 5.328634e-01
Admitted
```

ps3-2-a.)

```
ps3-2-a.)
Thetas
profitthetas =

   1.0e+05 *

    2.1879
   -0.0077
    0.0001
```

ps3-2-b.)