## Week 5 Assignment

 $Ben\ Arancibia$ 

October 4, 2014

## Problem Set 1

## Question 1

## [2,] 108

Script to compute  $A^TA$  and  $A^Tb$  Use the given matrix in the Problem set which is unsolvable

```
A \leftarrow matrix(c(1,1,1,1,0,1,3,4), ncol=2)
b \leftarrow c(0,8,8,19)
        [,1] [,2]
##
## [1,]
          1
## [2,]
## [3,]
         1
1
                 3
## [4,]
## [1] 0 8 8 19
Compute A^TA
(AtA <- t(A) %*% A)
        [,1] [,2]
## [1,]
## [2,]
                26
Compute A^Tb
(Atb <- t(A) %*% b)
        [,1]
## [1,]
          35
```