

LAB-10

Problem 1

```
y <- c(1.1,2,2.5,3)
x1<- c(11,12,10,14)
x2 <- c(21,24,26,30)

X<-cbind(1,x1,x2)
B<-solve(t(X) %*% X) %*% t(X) %*% y
B
```

```
      [,1]
-2.69285714
x1 -0.09821429
x2  0.23750000
```

Problem 2

```
data<-data.frame(y,x1,x2)
solve <- lm(y~x1+x2,data=data)
solve$coefficients
```

```
(Intercept)      x1      x2
-2.69285714 -0.09821429  0.23750000
```