

```
age=c(35,45,55,65,75);tension=c(114,124,143,158,166)
plot(age,tension)
lm(tension~age)
reg = lm(tension~age)
abline(reg, col = "red")
# (X'X)^(-1)X'Y
X=cbind(rep(1,5),age);
X
Y=matrix(tension,nrow=5,ncol=1);
Y
solve(t(X)%*%X)%*%(t(X)%*%Y)

(x = c(1,4,9))
y = c(x,2,3); y
seq(10.5,100);
seq(2,10,length.out=100)
rep(0,10)
dnorm(0);1/sqrt(2*pi)
pnorm(0);0.5
pnorm(2,2,10)
qnorm(0.5); # mediane
qnorm(0.5,2)
qnorm(0.975)
x = runif(1000);hist(x)
```