# Pg599#11.9

# a)

x<-c(1.8,1.5,2.0,2.5,1.8,2.5,1.6,1.5)

y<-c(51,51,115,150,126,150,118,106)

plot(x,y)

# c)

# Preliminary Calcultions

n<-8; sx<-sum(x); sy<-sum(y); ssx<-sum(x^2); ssy<-sum(y^2); sxy<-sum(x\*y)

B1<-(sxy-n\*(sx/n)\*(sy/n))/(ssx-n\*(sx/n)^2)

B0<-(sy/n)-B1\*(sx/n)

# Plot of the least-squares line.

lines(x,B0+B1\*x,type="l")

