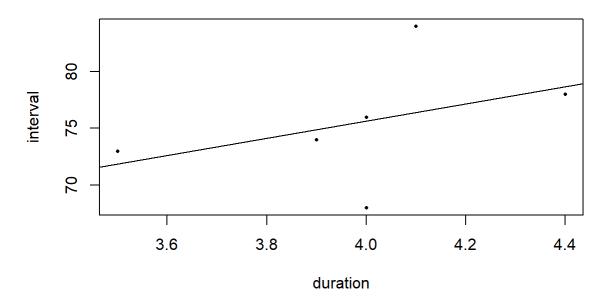
```
1. (a) x = c(4.4, 3.9, 4.0, 4.0, 3.5, 4.1)
y = c(78, 74, 68, 76, 73, 84)
xy <- data.frame(duration = x, interval = y)
plot(xy,pch=16,cex=0.5) #scatter plot
title("Scatterplot between duration and interval")
x=xy$duration
y=xy$interval
n=length(x)
lm.sol=lm(y~x)
abline(lm.sol)
```

Scatterplot between duration and interval



```
x = c(4.4, 3.9, 4.0, 4.0, 3.5, 4.1)

y = c(78, 74, 68, 76, 73, 84)

xy < - data.frame(duration = x, interval = y)

plot(xy,pch=16,cex=0.5) #scatter plot

title("Scatterplot between duration and interval")

x=xy$duration

y=xy$interval

n=length(x)

lm.sol=lm(y^x)

abline(lm.sol)

beta0 = 45.27626

beta1 = 7.587549

text(4.1, 75, labels = bquote(hat(y) == .(beta0) + .(beta1) * x),cex=0.6)
```

Scatterplot between duration and interval

