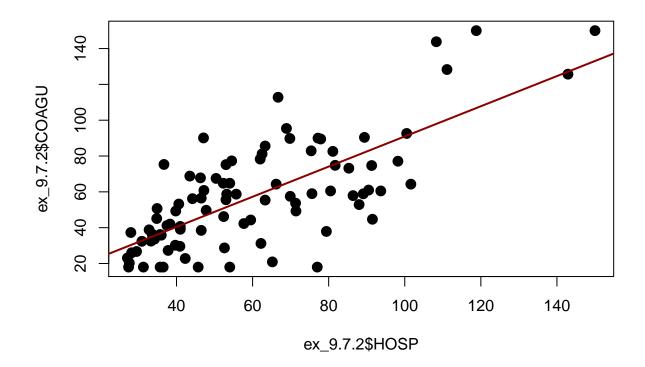
## ejercicio 9.7.2

## Leer los datos

```
ex_9.7.2 <- read.csv("EXR_C09_S07_02.csv")
library(car)

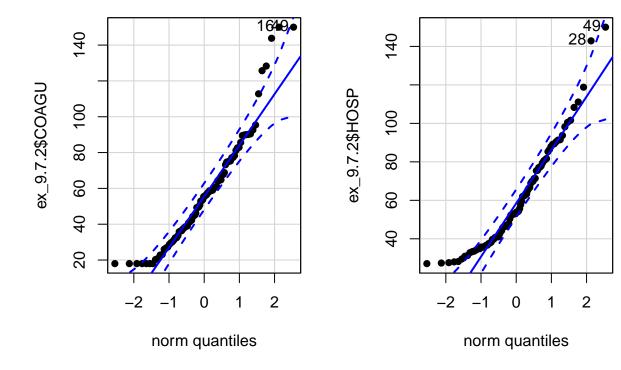
## Loading required package: carData
plot(ex_9.7.2$HOSP, ex_9.7.2$COAGU, pch=16, cex=1.5)
abline(lm(formula = ex_9.7.2$COAGU~ ex_9.7.2$HOSP),col="darkred",lwd=2)</pre>
```



```
QQ-plots
```

```
par(mfrow=c(1,2))
qqPlot(ex_9.7.2$COAGU,pch=16)
## [1] 16 49
```

```
qqPlot(ex_9.7.2$HOSP,pch=16)
```



```
## [1] 49 28
cor.test(ex_9.7.2$COAGU,ex_9.7.2$HOSP)
##
##
   Pearson's product-moment correlation
##
## data: ex_9.7.2$COAGU and ex_9.7.2$HOSP
## t = 10.17, df = 88, p-value < 2.2e-16
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
  0.6227350 0.8176615
## sample estimates:
##
## 0.735034
lineal_model <- lm(COAGU~HOSP, data = ex_9.7.2)</pre>
lineal_model
##
## lm(formula = COAGU ~ HOSP, data = ex_9.7.2)
## Coefficients:
```

## (Intercept)

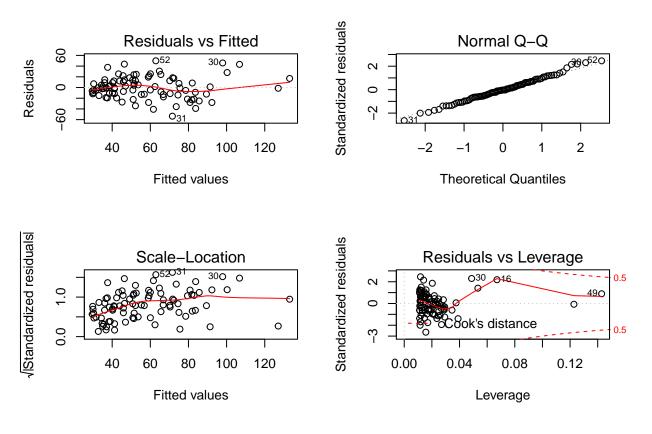
##

6.7265

HOSP

0.8421

```
summary(lineal_model)
##
## Call:
## lm(formula = COAGU ~ HOSP, data = ex_9.7.2)
##
## Residuals:
      Min
##
              1Q Median
                            3Q
                                  Max
##
   -53.57 -12.48 -0.66
                         12.66
                                49.90
##
## Coefficients:
##
               Estimate Std. Error t value Pr(>|t|)
               6.72650
                           5.44575
                                      1.235
                                                0.22
## (Intercept)
                           0.08281
                                    10.170
## HOSP
                0.84215
                                              <2e-16 ***
##
                   0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## Signif. codes:
##
## Residual standard error: 20.45 on 88 degrees of freedom
## Multiple R-squared: 0.5403, Adjusted R-squared: 0.5351
## F-statistic: 103.4 on 1 and 88 DF, p-value: < 2.2e-16
```



Test

plot lineal model
par(mfrow=c(2,2))
plot(lineal\_model)