

## TP\_2

EL\_Hadrami

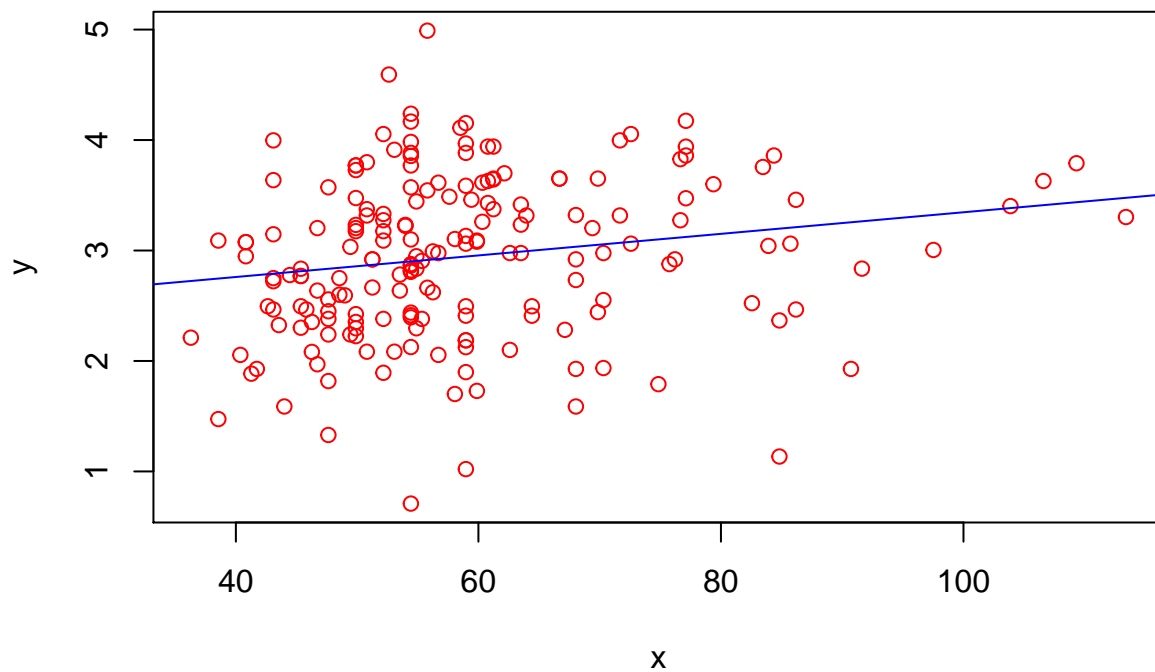
23/10/2020

```
datapn$LWT <- datapn$LWT * 0.45359237
datapn$BWT <- datapn$BWT / 1000
```

```
y <- datapn$BWT
x <- datapn$LWT
reg <- lm(y~x)
summary(reg)
```

```
##
## Call:
## lm(formula = y ~ x)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -2.19218 -0.50363 -0.00391  0.50825  2.07553
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  2.369672   0.228431  10.374  <2e-16 ***
## x            0.009765   0.003777   2.586   0.0105 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.7182 on 187 degrees of freedom
## Multiple R-squared:  0.03452,    Adjusted R-squared:  0.02935
## F-statistic: 6.686 on 1 and 187 DF,  p-value: 0.01048

plot(x,y,col="red")
abline(reg,col="blue")
```



```
anova(reg)
```

```
## Analysis of Variance Table
##
## Response: y
##           Df Sum Sq Mean Sq F value  Pr(>F)
## x           1  3.449   3.4489   6.6855 0.01048 *
## Residuals 187 96.468   0.5159
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

Devoir