

## **Solutions de l'exercice du chapitre : “Régression linéaire simple et multiple”**

**1.1.-** `lm(Y~X1)`.

**1.2.-** `lm(Y~X1-1)`.

**1.3.-** `lm(Y~X1+X2)`.

**1.4.-** `lm(Y~X1+X2+X1:X2)`.

**1.5.-** `lm(Y~X1+I(X1^2)+I(X1^4))`.

**1.6.-** `anova(lm(Y~X1+X2), lm(Y~X1+X2+X3+X4))`.

**1.7.-** `residuals()`.

**1.8.-** `coefficients()`.

**1.9.-** Il faut introduire la variable  $Z$  comme un facteur en utilisant la commande `factor()`.

**1.10.-** `lm(Y~poly(X, 3))`.

**1.11.-** `add1()`.

**1.12.-** `drop1()`.