Untitled2

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In [1]:
```
# Remueve todos los objetos creados
rm(list=ls())
Fx <- function(x) log(x+2)-sin(x)
F1x <- function(x) 1/(x+2)-cos(x)
# Metodo de la Secante
# Halla la raiz de Fx

secante <- function(x0,x1) {
x<-(Fx(x1)*x0-Fx(x0)*x1)/(Fx(x1)-Fx(x0))
error <-1
while (error > 1.e-7) {
x0<-x1
x1<-x
x<-(Fx(x1)*x0-Fx(x0)*x1)/(Fx(x1)-Fx(x0))
if (Fx(x) == 10) break
error<-abs(Fx(x)/F1x(x))

cat("X=",x,"\t","E=",error,"\n")
}
}
secante(-1.8,-1.6)
```

```
X= -1.631835          E= 0.0003908218
X= -1.631439          E= 4.872326e-06
X= -1.631444          E= 2.871262e-09
```