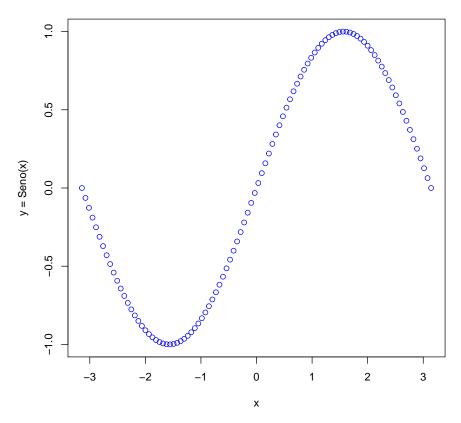
```
#GUIA 5
x <- 2
if(x>0) y<-1 else y<-0; y
## [1] 1
x <- -1
if(x>0) y<-1 else y<-0; y
## [1] 0
x \leftarrow c(6:-4); x
## [1] 6 5 4 3 2 1 0 -1 -2 -3 -4
sqrt(x)
## Warning in sqrt(x): Se han producido NaNs
## [1] 2.449490 2.236068 2.000000 1.732051 1.414214 1.000000 0.000000
## [8] NaN NaN NaN
                                  NaN
sqrt(ifelse(x >= 0, x, NA))
## [1] 2.449490 2.236068 2.000000 1.732051 1.414214 1.000000 0.000000
## [8] NA
                    NA
                           NA
                                     NA
ifelse(x >= 0, sqrt(x), NA)
## Warning in sqrt(x): Se han producido NaNs
## [1] 2.449490 2.236068 2.000000 1.732051 1.414214 1.000000 0.000000
## [8] NA
                NA
                          NA
                                  NA
x \leftarrow c(2, 6, 4, 7, 5, 1)
suma<-0; for(i in 1:3) suma = suma+x[i]; suma</pre>
## [1] 12
func.cuadratica <- function(x)</pre>
   3*x^2-5*x+2
y <- func.cuadratica(2);y</pre>
## [1] 4
```

```
media <- function(x)</pre>
    n = length(x)
    suma <- 0.0
    for(i in 1:n) suma = suma + x[i]
    media = suma/n
save(media, file= "media.RData")
rm(list=ls(all=TRUE))
load("media.RData")
x <- 1:5; (media(x))</pre>
## [1] 3
y <- c(5, NA , 4, 9); (media(y))
## [1] NA
Seno <- function(x)</pre>
   y = \sin(x)
   plot(x, y, main="Ejemplo de graficos en R",
        xlab="x", ylab="y = Seno(x)", col="blue", pch=1)
x<-seq(-pi, pi, len=100)</pre>
Seno(x)
```

Ejemplo de graficos en R



```
#Factorial de un muero
factiorial <- function(x) prod(1:x)
factorial(4)
## [1] 24</pre>
```