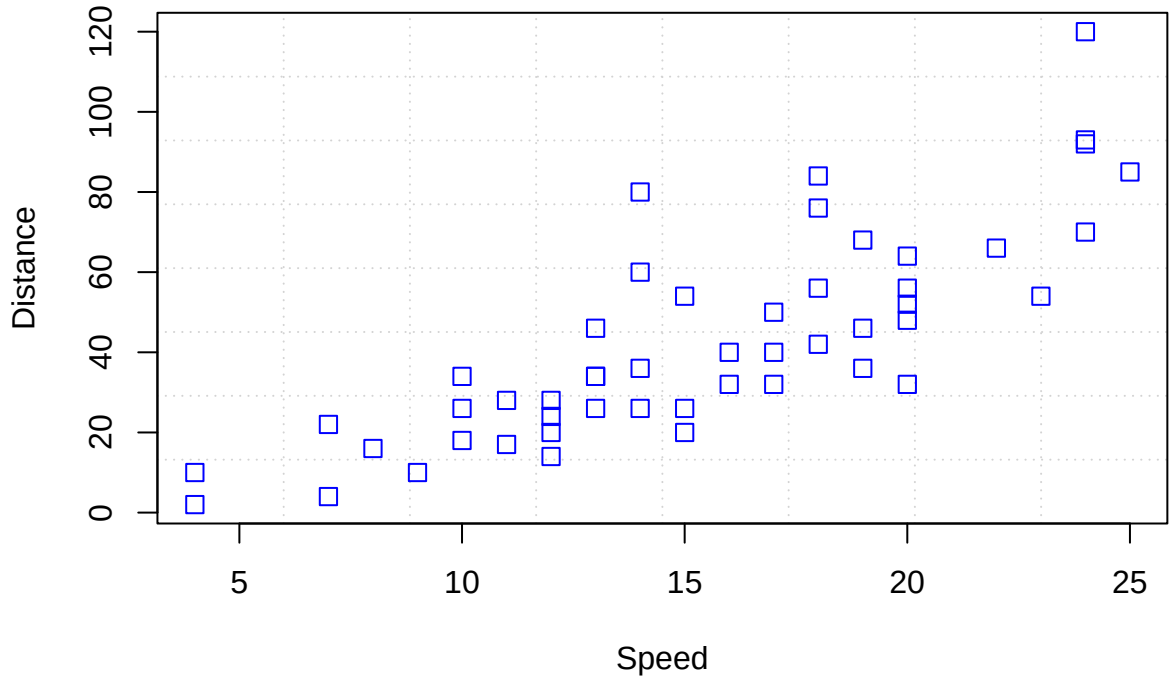
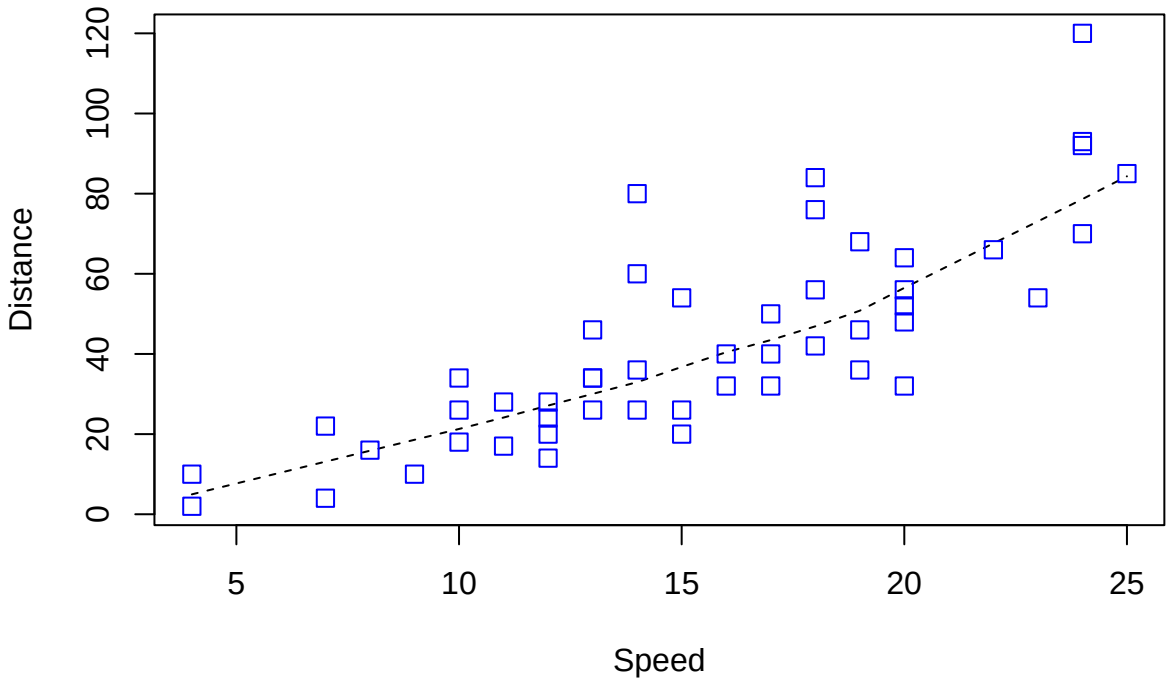
PLOT

```
example(plot)
```

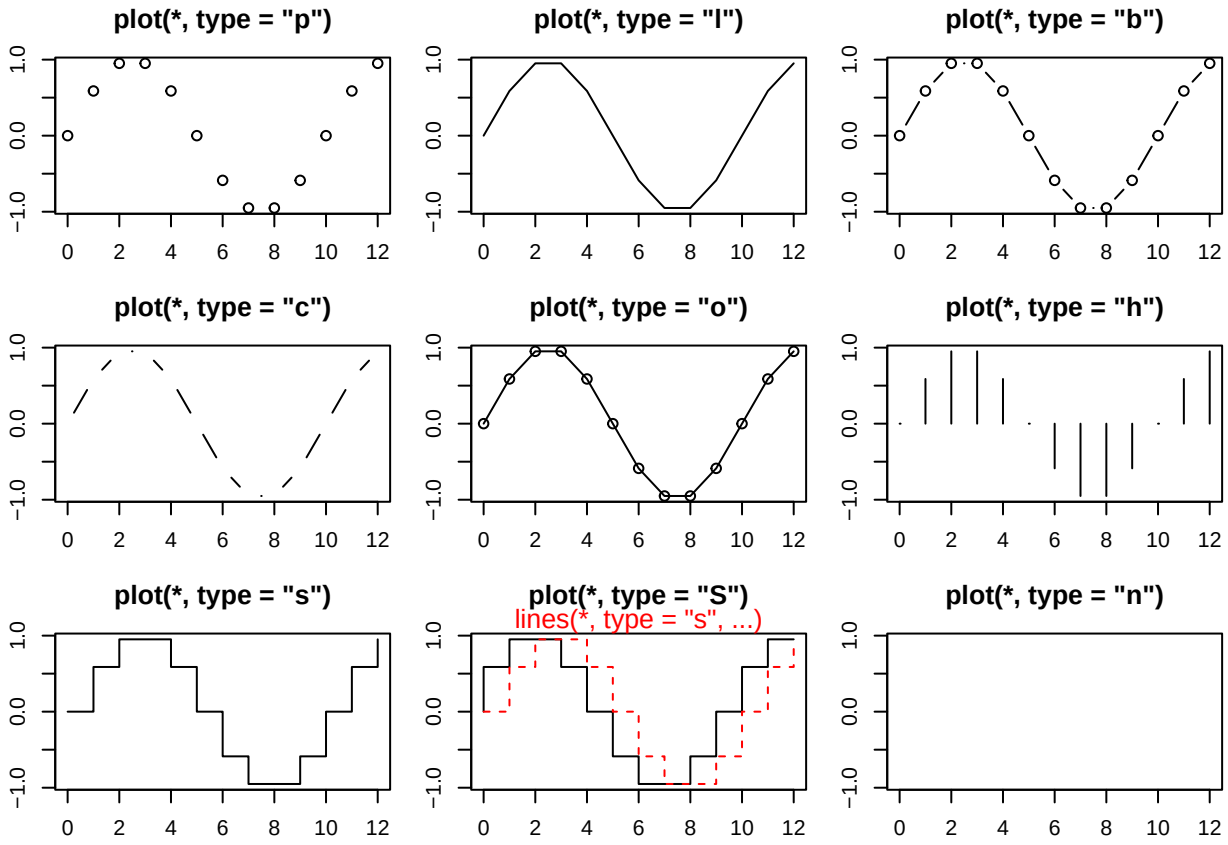
```
##
## plot> Speed <- cars$speed
##
## plot> Distance <- cars$dist
##
## plot> plot(Speed, Distance, panel.first = grid(8, 8),
## plot+      pch = 0, cex = 1.2, col = "blue")
```



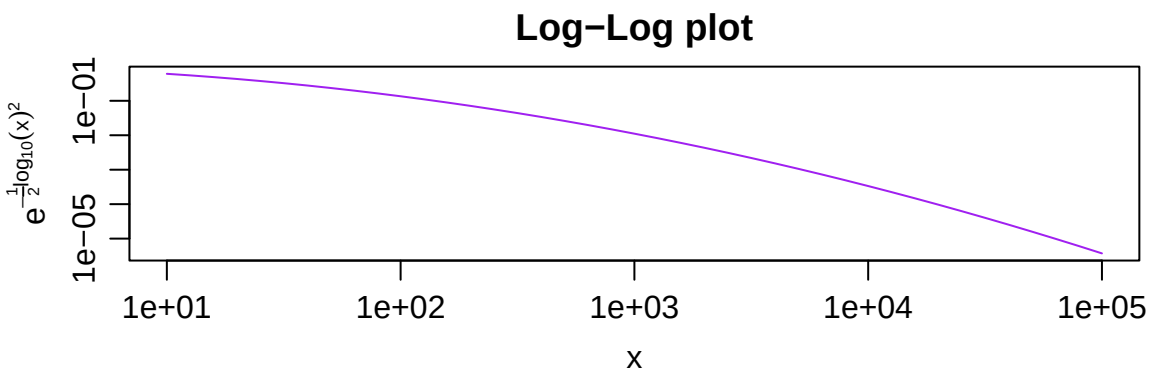

```
##
## plot> plot(Speed, Distance,
## plot+      panel.first = lines(stats::lowess(Speed, Distance), lty = "dashed"),
## plot+      pch = 0, cex = 1.2, col = "blue")
```

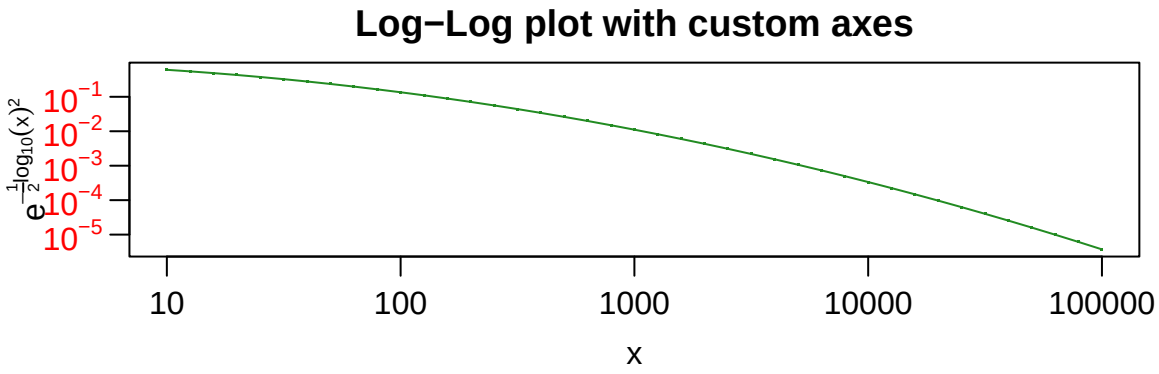



```
##
## plot> ## Show the different plot types
## plot> x <- 0:12
##
## plot> y <- sin(pi/5 * x)
##
## plot> op <- par(mfrow = c(3,3), mar = .1+ c(2,2,3,1))
##
## plot> for (tp in c("p","l","b",  "c","o","h",  "s","S","n")) {
## plot+    plot(y ~ x, type = tp, main = paste0("plot(*, type = \"", tp, "\")"))
## plot+    if(tp == "S") {
## plot+       lines(x, y, type = "s", col = "red", lty = 2)
## plot+       mtext("lines(*, type = \"s\", ...)", col = "red", cex = 0.8)
## plot+    }
## plot+ }
```

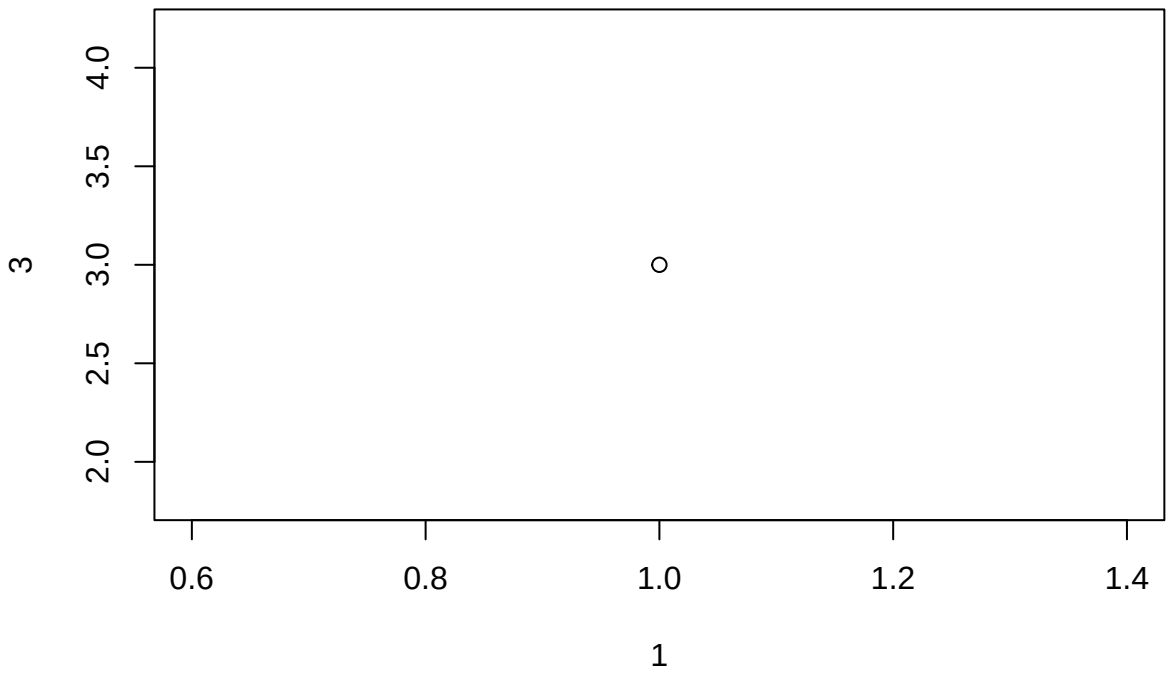



```
##
## plot> par(op)
##
## plot> ##--- Log-Log Plot  with  custom axes
## plot> lx <- seq(1, 5, length.out = 41)
##
## plot> yl <- expression(e^{-frac(1,2) * {log[10](x)}^2})
##
## plot> y <- exp(-.5*lx^2)
##
## plot> op <- par(mfrow = c(2,1), mar = par("mar")-c(1,0,2,0), mgp = c(2, .7, 0))
##
## plot> plot(10^lx, y, log = "xy", type = "l", col = "purple",
## plot+      main = "Log-Log plot", ylab = yl, xlab = "x")
##
## plot> plot(10^lx, y, log = "xy", type = "o", pch = ".", col = "forestgreen",
## plot+      main = "Log-Log plot with custom axes", ylab = yl, xlab = "x",
## plot+      axes = FALSE, frame.plot = TRUE)
```

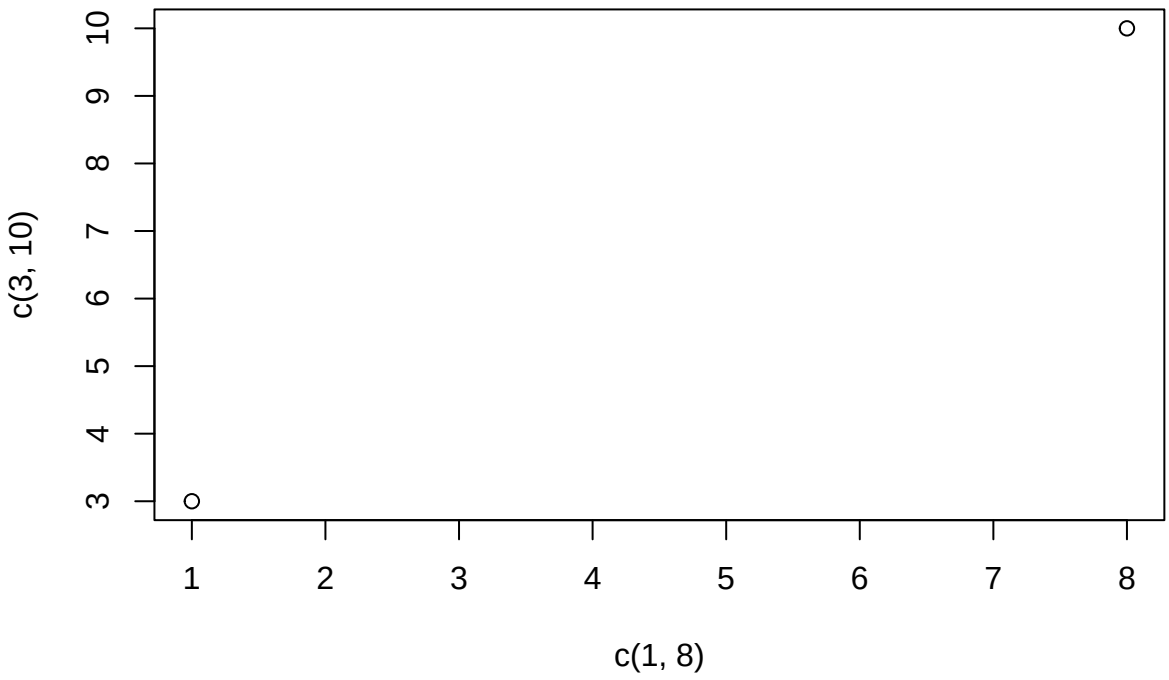




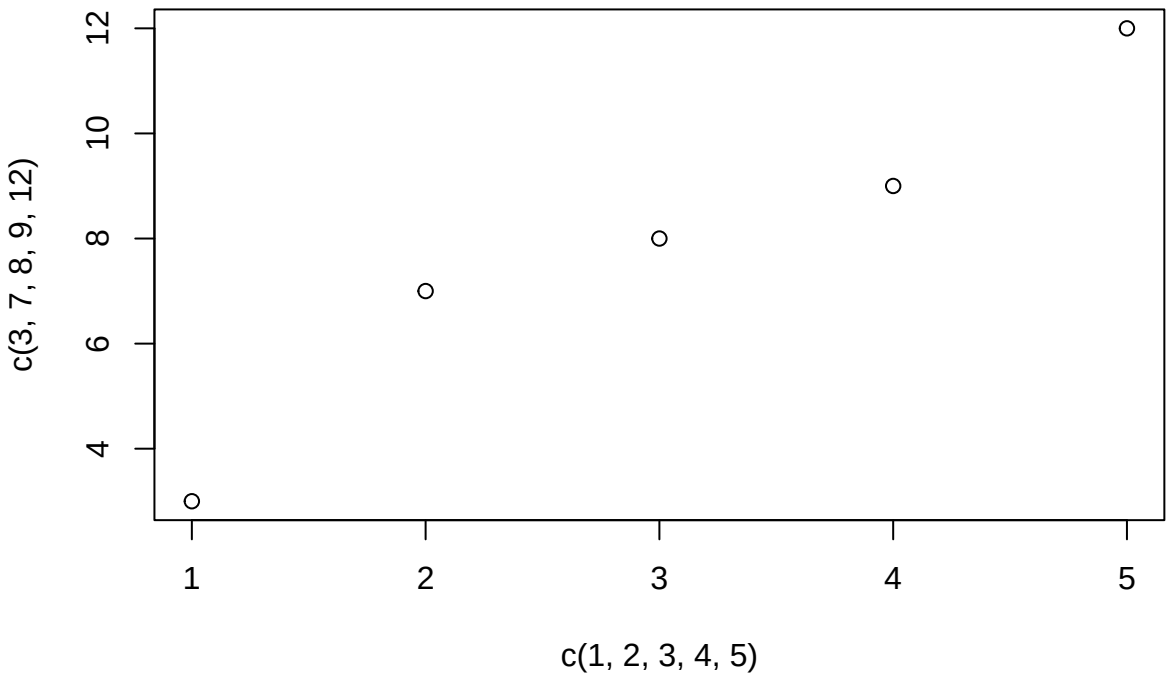

```
##
## plot> my.at <- 10^(1:5)
##
## plot> axis(1, at = my.at, labels = formatC(my.at, format = "fg"))
##
## plot> e.y <- -5:-1 ; at.y <- 10^e.y
##
## plot> axis(2, at = at.y, col.axis = "red", las = 1,
## plot+      labels = as.expression(lapply(e.y, function(E) bquote(10^.(E)))))
##
## plot> par(op)
plot(1, 3)
```



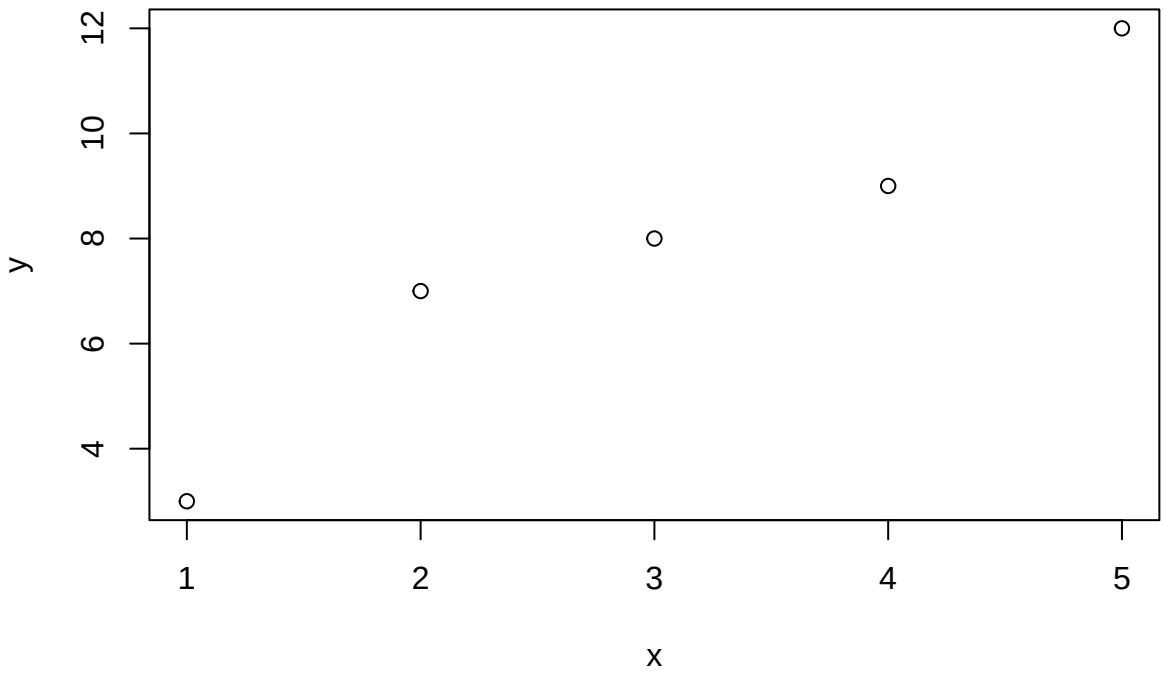

```
plot(c(1, 8), c(3, 10))
```



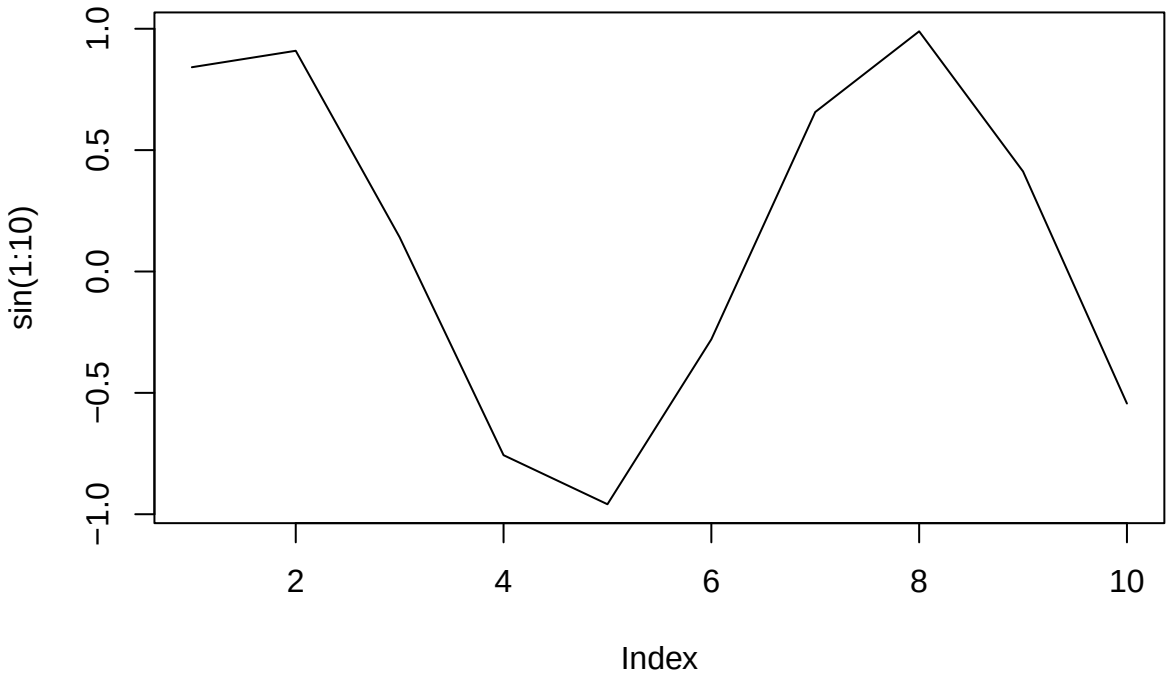

```
plot(c(1, 2, 3, 4, 5), c(3, 7, 8, 9, 12))
```



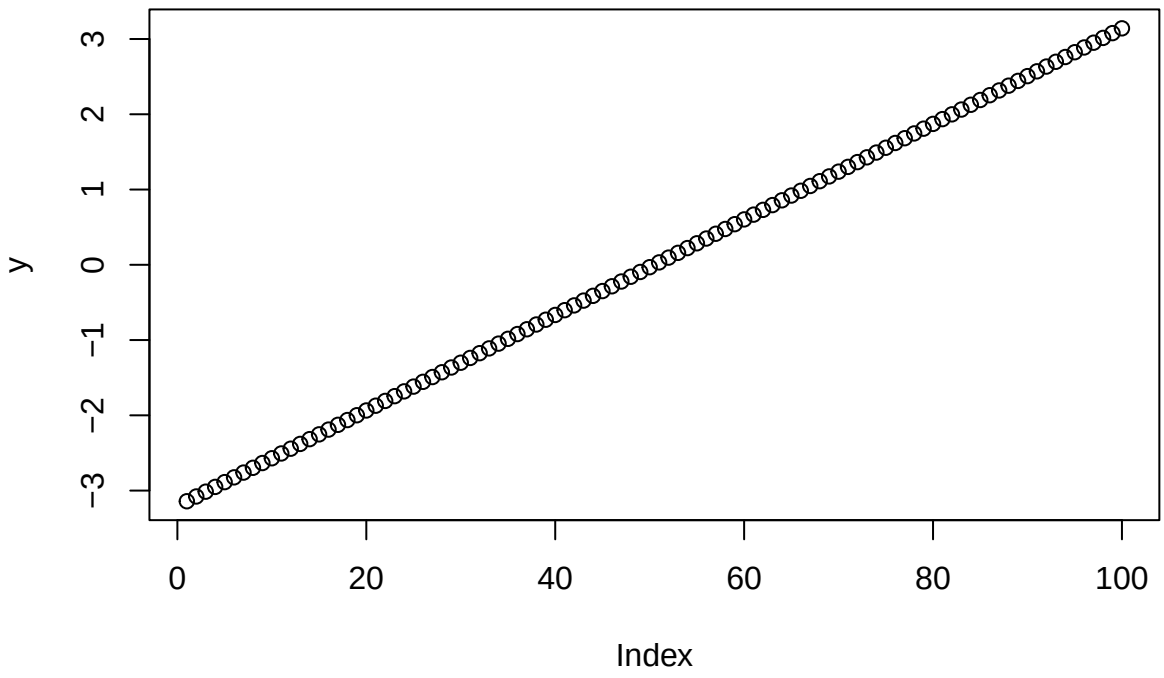

```
x <- c(1, 2, 3, 4, 5)
y <- c(3, 7, 8, 9, 12)

plot(x, y)
```



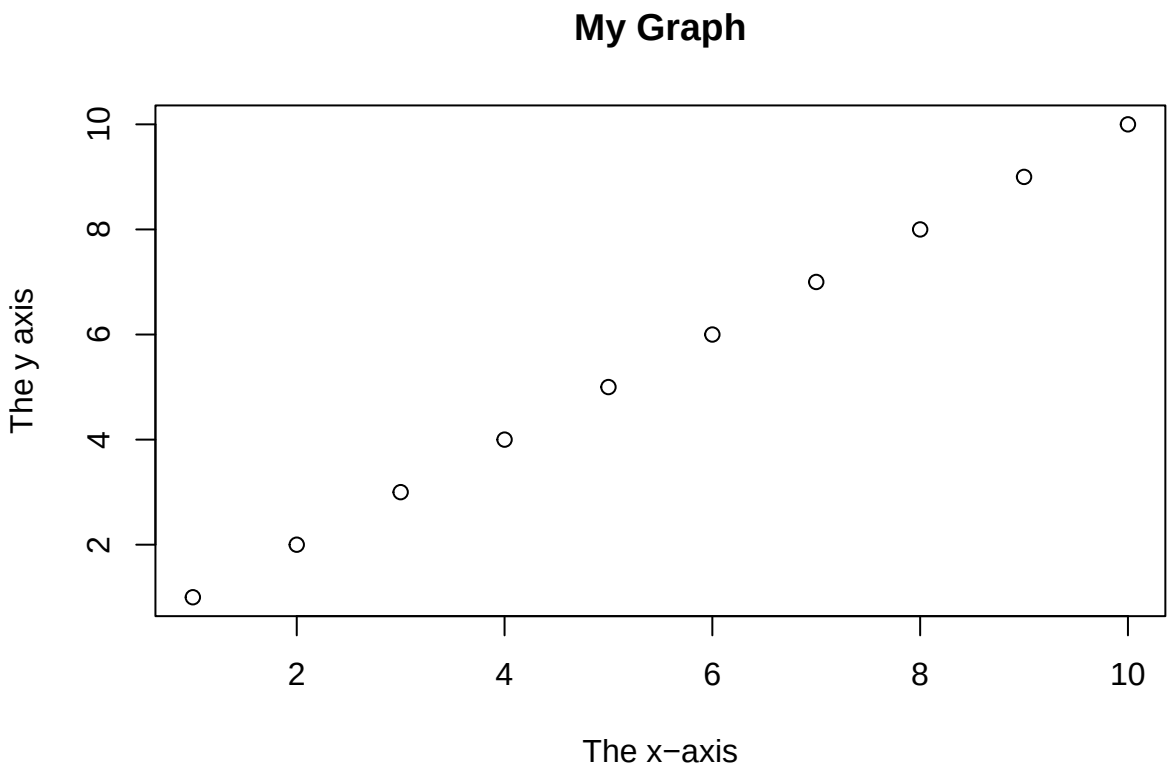

```
plot(sin(1:10), type = "l")
```



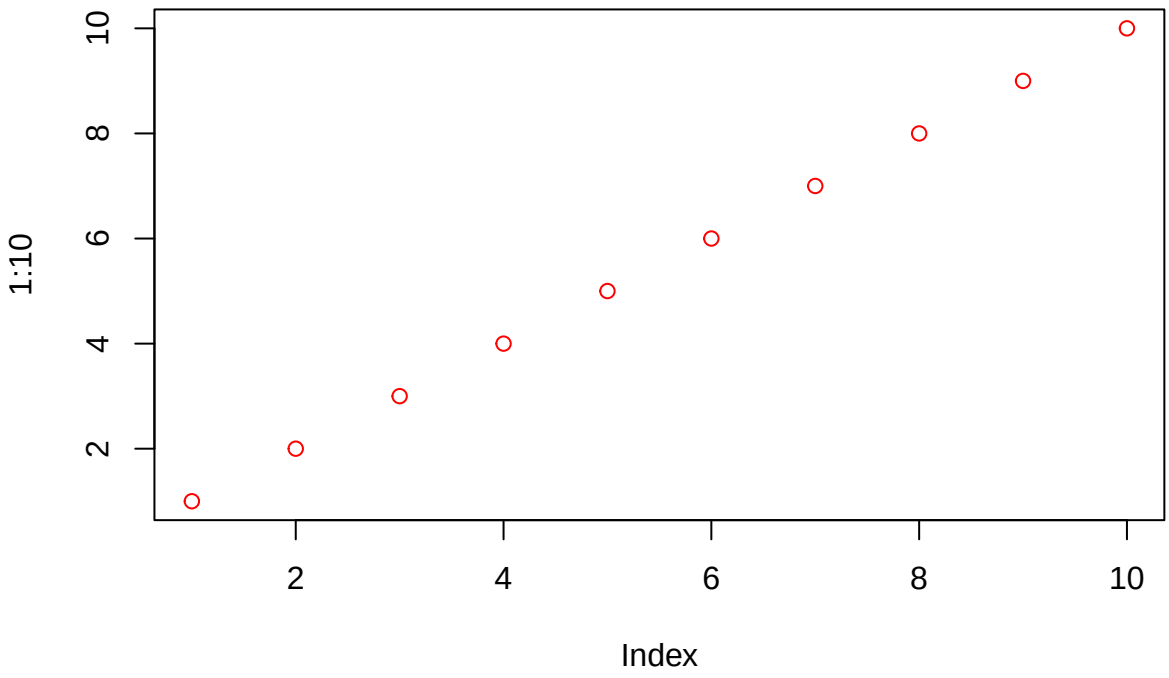

```
y <- seq(-1 * pi, pi, length.out = 100)
plot(y)
```



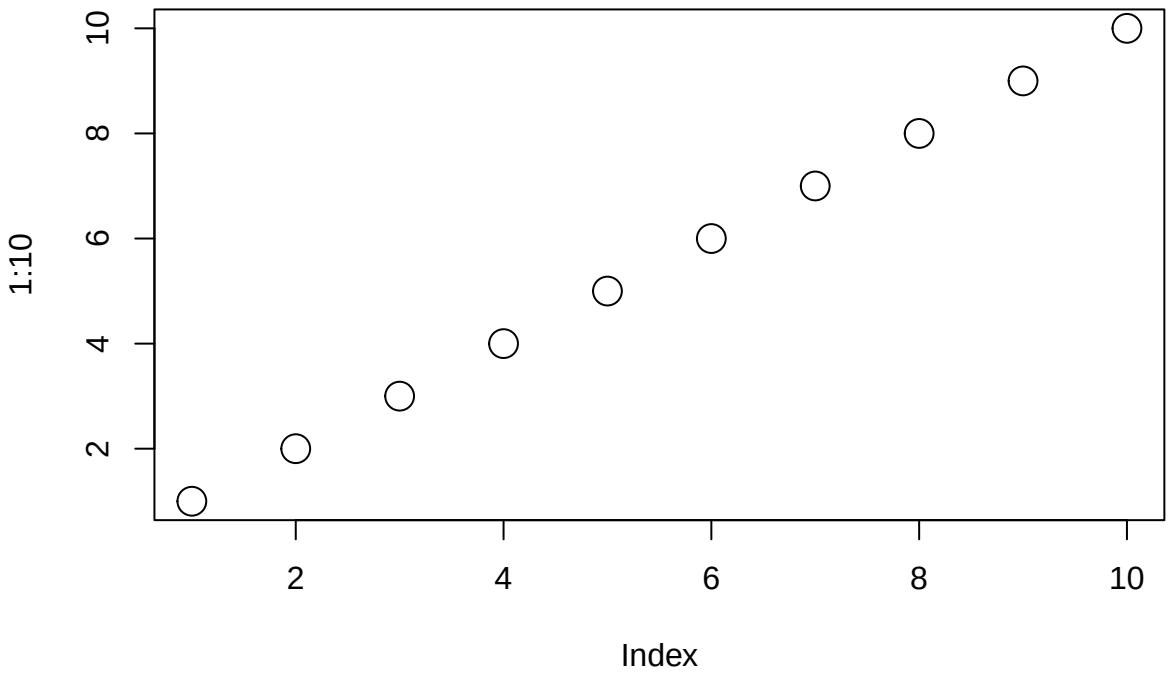

```
plot(1:10, main="My Graph", xlab="The x-axis", ylab="The y axis")
```



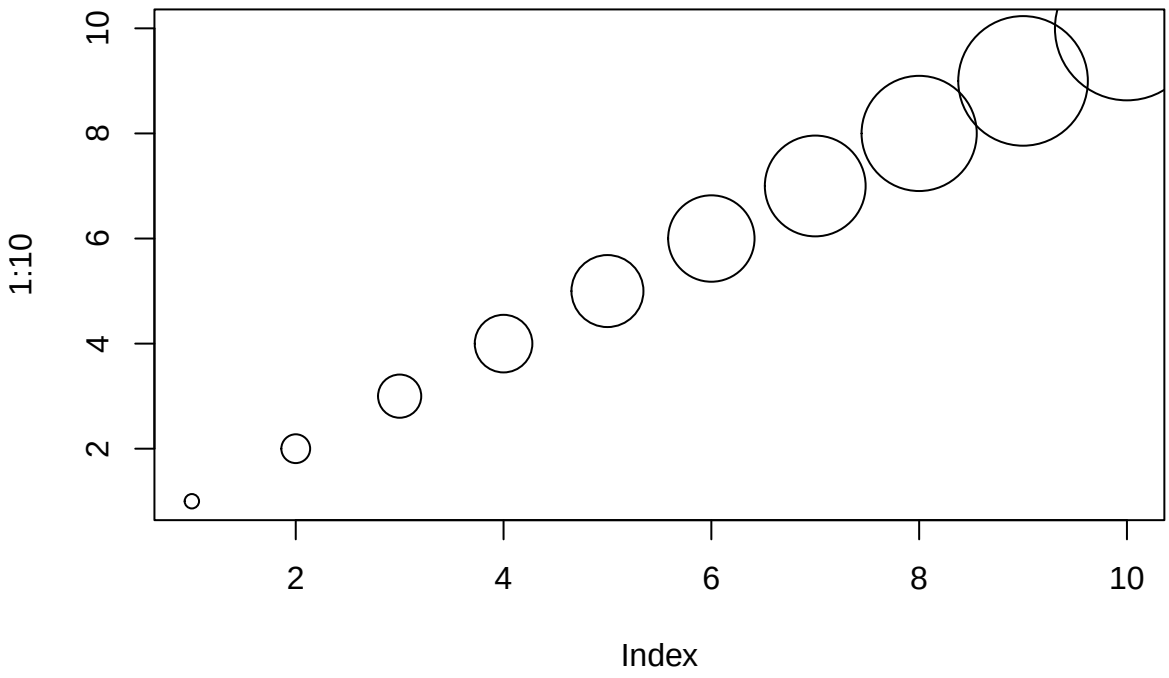

```
plot(1:10, col="red")
```



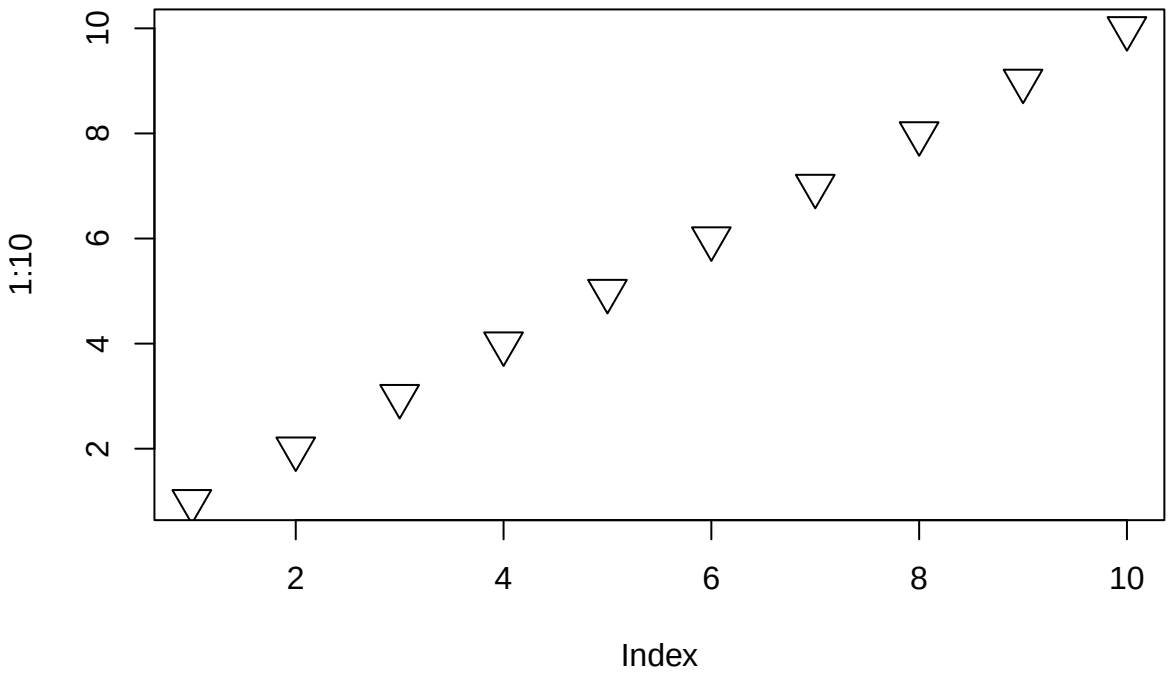

```
plot(1:10, cex=2)
```



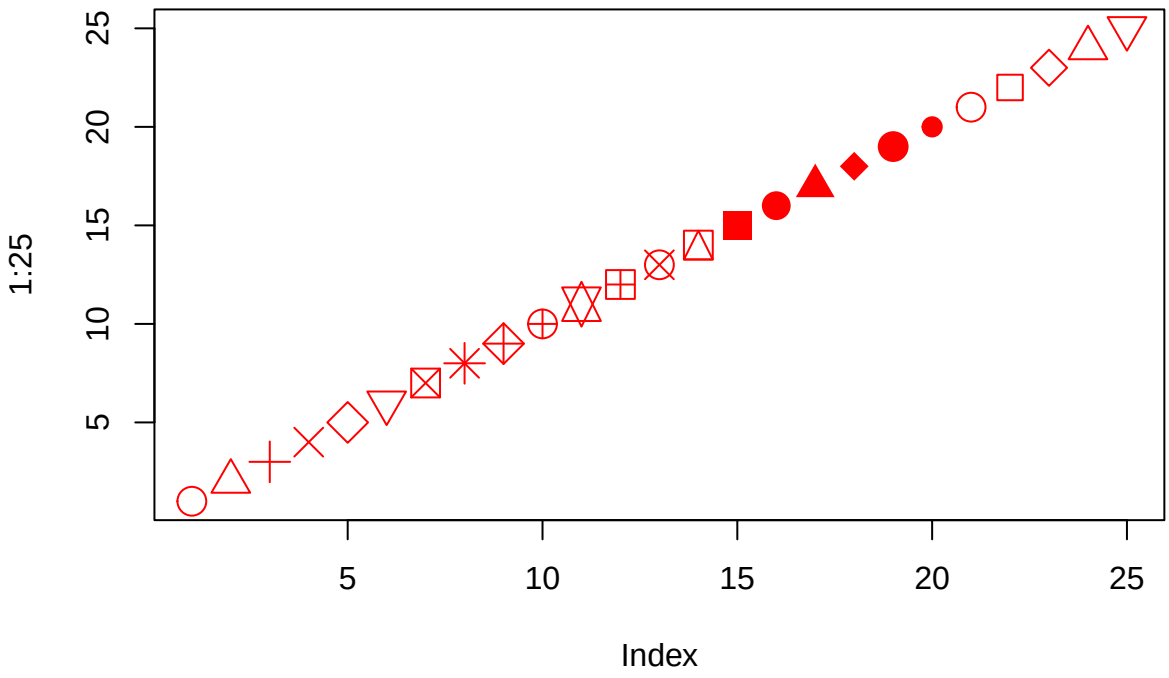

```
plot(1:10, cex=c(1:10))
```



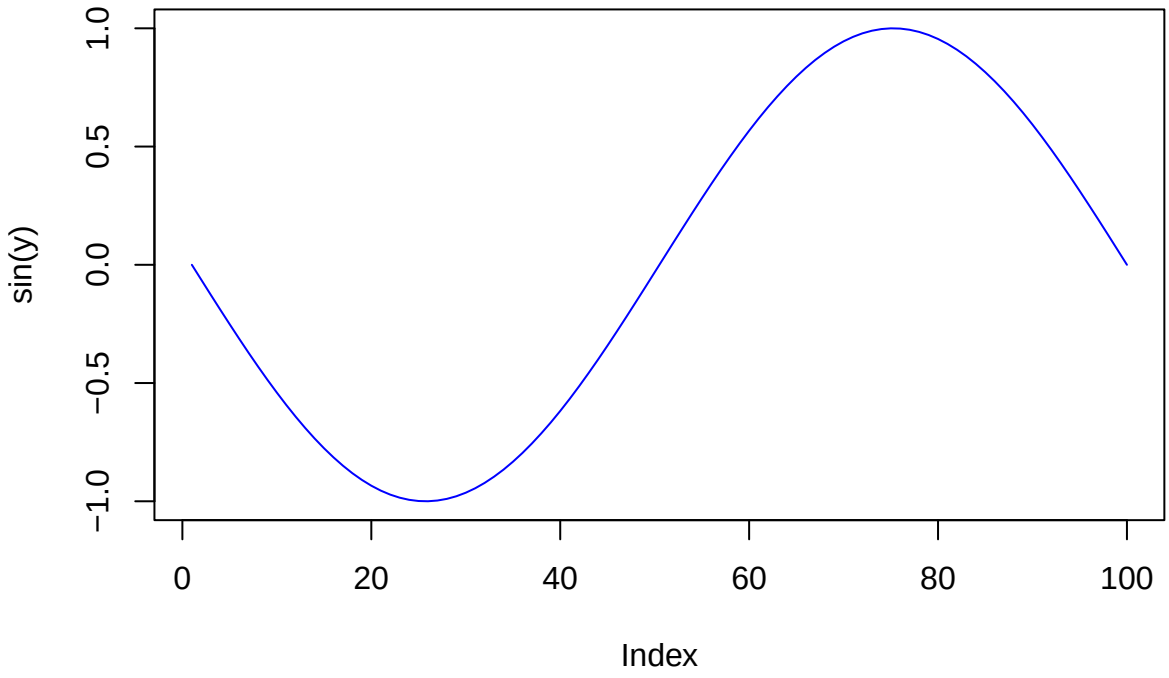

```
plot(1:10, pch=25, cex=2)
```




```
plot(1:25, pch=c(1:25), cex=2, col="red")
```




```
plot(sin(y), type="l", col="blue")
```


sin(y)
1.0
0.5
0.0
−0.5
−1.0
0
20
40
60
80
100
Index