**Common Graphing Functions**

**plot(**

x=x, y=y, # data, if x is omitted then uses 1:length(y)

xlim=c(0,100), ylim=c(0,100), # limit to axis

main=”Plot Title”, # title of your plot

xlab=”Label for X”, ylab=”Label for Y”, # axes labels

col=”steel blue”, # color of the points, can be a vector

lty=”b”, # points=”p”, lines=”l”, both=”b”, or none=”n”

pch=19, # type of points to plot

cex.lab=1.5, # aspect ratio for axes labels

cex=2, # aspect ratio for points

**)**

**lines(**

x=x, y=y, # draws a line by connecting points

lty=”l”, # type of lines, same as above

lwd=0.5, # aspect ratio for line thickness

**)**

**text(**

x=x, y=y, # draws a line by connecting points

labels=some.text, # vector of labels to plot on the graph

pos=3, # position: 1=below, 2=left, 3=above, 4=right

cex=2, # aspect ratio of text size

col=”red” # color of text

**)**

**points(**

x=x, y=y, # plots points at the x,y positions

pch=19, # the type of point to plot

cex=2, # aspect ratio of point size

col=”red”, # color of points

bg=”green” # fill color for open symbols

**)**



**abline(**

a=a, # intercept of the line

b=b # slope of the line

… # additional parameters similar to lines

**)**

**abline(**

h=seq(1,10,0.5), # locations of horizontal lines, can be a vector

**)**

**abline(**

v=seq(1,10,0.5), # locations of vertical lines, can be a vector

**)**

**abline(**

reg=lm.01, # bivariate regression model

**)**

**segments(**

x0=x0, y0=y0, # starting points of the segments (usually a vector)

x1=x1, y1=y1, # end points of the segments (usually a vector)

… # additional parameters similar to lines

**)**

**arrows(**

x0=x0, y0=y0, # starting points of the arrows (usually a vector)

x1=x1, y1=y1, # end points of the arrows (usually a vector)

code=1, # 1=head at end point, 2=head at start, 3=head at both ends of line

… # additional parameters similar to lines

**)**

See also:

**polygon()**

**draw.circle()**

**identify(x,y)**

**plotmath()**