



Functions to ADD components to plot region of glophs Prints(x,y,...) adds point lines (x,y,...) ales line segment text (x, y, lobels, ...) adds text abline (a,b,...) adds line y = 9+bx ablic (h=y,...) adds horizontal line ablie (V=x,...) adds vortical line title (wais, sub, xhds, yhab, ...) adds title, subtitle, x=y) outside untext (text, Side, line, ...) drows text in margins Photting exis (side, at, labels,...) als to the plat region toly alt Lmora rod a 1860 (...)

Functions are made up of:

· A header that includes the word further and an argument list (which might be empty)

. A body which includes a set of statements enclosed by early braces {}.

. Can be called within body of other functions, all functions produce a ringle output.

· If Here's no return(), value of last statement is returned.

Lattice:

-dot plot (my Factor ~ my Measurement (optional factor, data = my Data) - dot plot



· buplot (my Factor ~ my Messurement) optonal factor, data = my Duda) (- h oxplot



· Kyplot (y~xluptional Factor, dota=my Data) < Scatter plot (:)

· we can condition on a variable by adding the virtical slash and the additional factor

· lan () function as be used to fit presentive models where there are several predictor variables.

. The PRESS statistic Can be used to decide which model is professed; smaller the better.

· Predictions and prediction introds on he computed for fitted models using Predict function

(part (formula + any extra variable, data = my DATA) | Seq (start, end, step) To plat that use: plot() as text()

rep(m, x) repeats m'x times

Summary (4) computes several summary startistics length (x) number of elements in x minks) min value of x nax(x) max value of v Prair (Kry) pairwise minime of control parding & may Prox (xiy) pairwise moving 1) x and y range (x) difference between max are min of x [CORLY) difference between 1th ad 312 quartiles SE(X) Standard Leviation / X var(x) variance of the data diff(1) successive differences of the values inv sort(x) arrages He elemak of x is arranding order