Plot

Plot[f, {x, xmin, xmax}] generates a plot of f as a function of x from xmin to xmax.

Plot[{f1, f2, ...}, {x, xmin, xmax}] plots several functions fi.

Plot evaluates its arguments in a non-standard way (see page 107). The following options can be given:

- AspectRatio -> 1/GoldenRatio: ratio of height to width
- Axes -> Automatic: whether to include axes
- AxesLabel -> None: axes labels
- DisplayFunction -> Automatic: function for generating output
- Framed -> False: whether to draw a frame
- MaxBend -> 10.: maximum bend between segments
- PlotColor -> True: whether to plot in color
- PlotDivision -> 20.: maximum subdivision factor in sampling
- PlotLabel -> None: a label for the plot
- PlotPoints -> 25: initial number of sample points
- PlotRange -> Automatic: range of z values to include
- PlotStyle -> Automatic: graphics primitives to specify the style for each curve
- Ticks -> Automatic: tick marks

Plot initially evaluates f at a number of equally-spaced sample points specified by PlotPoints. Then it uses an adaptive algorithm to choose additional sample points, attempting to produce a curve in which the bend between successive segments is less than MaxBend. It subdivides a given interval by a factor of at most PlotDivision. You should realize that with the finite number of sample points used, it is possible for Plot to miss features in your function. To check your results, you should increase the setting for PlotPoints. Plot returns a Graphics object. See page 107. See also: ListPlot, Graphics.