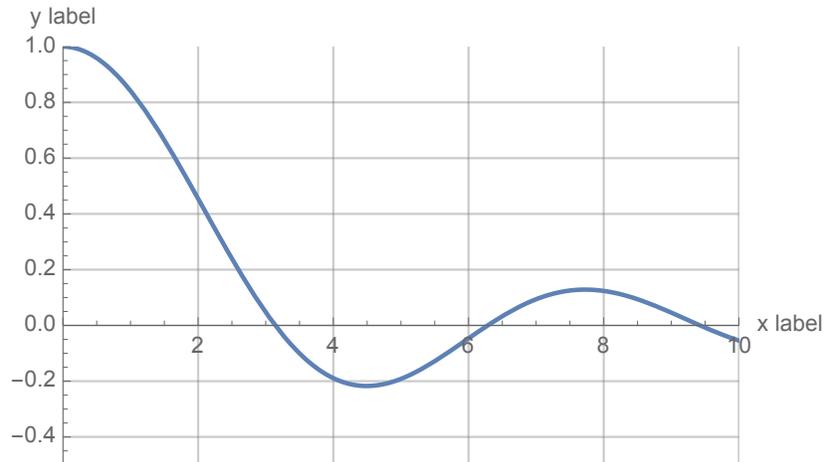# Graphing syntax cheat sheet

Refer to these scripts to remind yourself of the plotting syntax for some of the graphing programs that we endorse in this course.
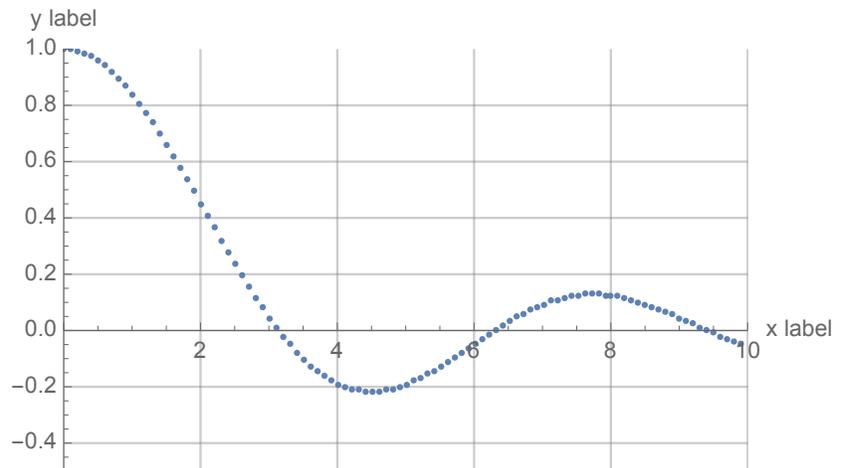
Plotting with Mathematica:

Plotting a function:

Plot[Sin[x]/x, {x, 0, 10}, AxesLabel -> {"x label", "y label"}, GridLines -> Automatic, PlotRange -> {{0, 10}, {-0.5, 1}}, PlotStyle -> Thick]

Plotting a list of points:

ListPlot[Transpose[{xdata, Sin[xdata]/xdata}], AxesLabel -> {"x label", "y label"}, GridLines -> Automatic, PlotRange -> {{0, 10}, {-0.5, 1}}, PlotStyle -> Thick]
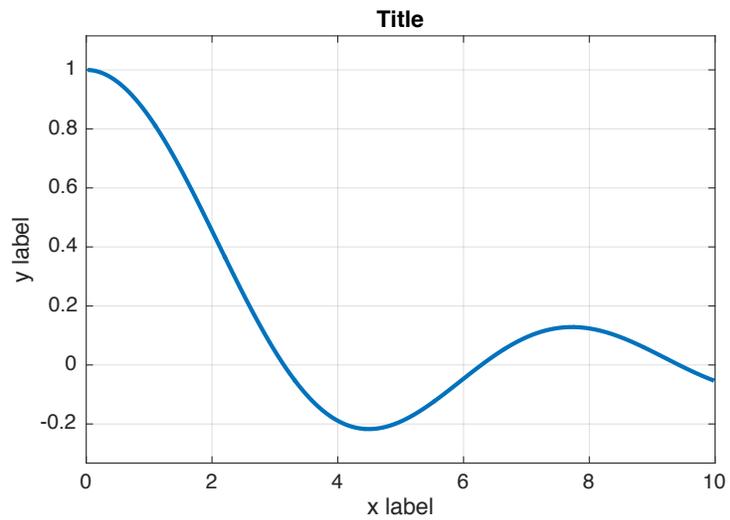
Graphing syntax cheat sheet

Plotting with Matlab

Plotting a function:

```
>> h=ezplot('sin(x)/x',0,10);
>> set(h,'Linewidth',2)
>> grid on
>> xlabel 'x label'
>> ylabel 'y label'
>> title 'Title'
```

Plotting a list of points:

```
>> plot(x,y,'+')
>> grid on
>> xlabel 'x label'
>> ylabel 'y label'
>> title 'Title'
```