

How did you graph the parabola for the warm-up?

Graphing with code is similar, this command:

```
xList=numpy.linspace(-10,10,100)
```

makes a list of 100 evenly spaced x values between -10 and 10.

Then we calculate the y values for each x value:

```
yList=a*xList**2+b*xList+c
```

Finally, this block of code puts the points we just created on a graph:

```
pyplot.plot(xList,yList)    #plots all points
pyplot.xlabel('x value')    #labels x axis
pyplot.ylabel('y value')    #labels y axis
pyplot.title('Parabola')    #labels graph
pyplot.grid(True)           #shows grid
pyplot.show()               #tells computer to show the graph on the
screen
```

What does the graph look like if you only do 10 evenly spaced points between -10 and 10?

What would you change if you wanted to graph between 0 and 1 instead of -10 to 10?

What would you change if you wanted to graph a straight line instead of a quadratic?