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#This code will plot some formulas.
#September 7, 2026. Eric Rasmusen. erasmuse61@gmail.com

import matplotlib.pyplot as plt;
import numpy as np

trash = [0, .5, 1, 1.5, 2, 2.5, 3] # Create our x values
x = np.array(trash) # Get them so we can put them in a function
# We need a numpy array for that, not just a normal list.

# Insert the functions to be plotted
y = x**2

plt.plot(x, y, linestyle="dotted", marker="o")

plt.scatter([2, 3], [1,2],color='red', s=50 ) #to put two dot at specific point.

plt.xlim(0,3.2) # Set x, y limits for the points covered by the diagram:
plt.ylim(0, 9.2)
plt.xticks([1, 2, 3])
plt.yticks([1, 2, 3,4,5,6,7,8,9])

#Label the horizontal and vertical axes
plt.xlabel("x")
plt.ylabel("y", rotation= "horizontal", horizontalalignment="left" , labelpad=6)
plt.title("$y=x^2$", color="red", fontsize = 20)

plt.show()
#####
#More simply:

import matplotlib.pyplot as plt;
import numpy as np

trash = [0, .5, 1, 1.5, 2, 2.5, 3] # Create our x values
x = np.array(trash) # Get them so we can put them in a function
y = x**2 # Insert the functions to be plotted

plt.plot(x, y )
plt.scatter([2, 3], [1,2] ) #to put two dots at specific point.

plt.show() #Make the plot appear.

```