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#This code will plot some formulas.
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import matplotlib.pyplot as plt;
import numpy as np

# Create 30 numbers between 0 and 20.
x = np.linspace(0,20,30)

# Insert the functions to be plotted
#This is what you change to make your own formulas
fx = 5 + 3*x
gx = x**2
hx = 2**x
plt.plot(x, fx, linestyle="None", marker= ".")
plt.plot(x, gx, linestyle="solid", marker= ".")
plt.plot(x, hx, linestyle="dotted", marker= ".")

plt.scatter(2, 3, color='red', s=50) #to puta dot at a specific point.

plt.xlim(0, 21) # Set x, y limits for the points covered by the diagram:
plt.ylim(0, 100)
plt.xticks([1, 2, 3, 4])

#Label the horizontal and vertical axes
plt.xlabel("x")
plt.ylabel("y", rotation= "horizontal", horizontalalignment="left" , labelpad=6)
plt.title("f(x)=Some Formulas", color="red", fontsize = 20)
plt.show()
```