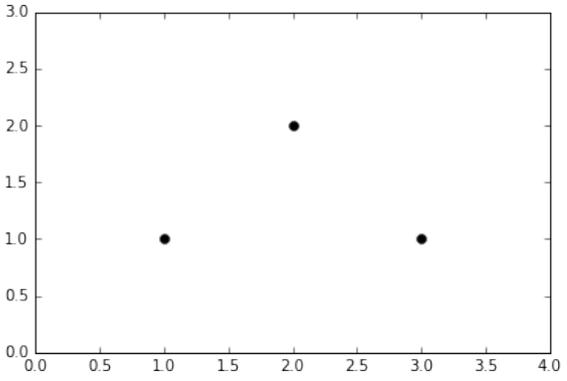


MTH 337 Quiz 12 Sample: More Plotting

Python Code	Result
<p>1)</p> <pre>import numpy as np import matplotlib.pyplot as plt x = [1, 2, 3] y = [1, 2, 1] plt.plot(x, y, "ko") plt.axvline(1.5) plt.xlim(0, 4) plt.ylim(0, 3)</pre> <p>FILL IN THE MISSING DETAILS.</p>	
<p>2)</p>	<p>Which Matplotlib function generates a histogram? Just write the function name.</p>
<p>3)</p>	<p>Which Matplotlib function generates a contour plot? Just write the function name.</p>
<p>4)</p>	<p>Write code to plot the polar function: $r = 1 + \sin(\theta)$. Choose for yourself a suitable number of points to plot.</p>
<p>5)</p>	<p>Suppose that $y = x^C$, where C is a constant. Which Matplotlib function for plotting y against x will show a straight line? Just write the function name.</p>
<p>6)</p> <pre>x = np.linspace(-1,1) y = np.linspace(-1,1) X, Y = plt.meshgrid(x, y) Z = np.hypot(X, Y) plt.contourf(x, y, Z)</pre>	<p>FINISH THE CODE FOR THIS PLOT.</p> 