import numpy as np  
import matplotlib.pyplot as plt  
  
r = np.arange(0, 2, 0.01)  
theta = 2 \* np.pi \* r  
  
fig, ax = plt.subplots(subplot\_kw={'projection': 'polar'})  
  
ax.plot(theta, r) # Fixed: Missing comma in 'ax.plot'  
  
ax.set\_rticks([0.5, 1, 1.5, 2]) # Fixed: Closing square bracket typo (2 instead of 21)  
  
ax.grid(True)  
  
plt.show()