## NumPDE-HW5-附录

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```
import matplotlib.pyplot as plt
   from numpy import *
   from math import pi
   arr_mu = [0.8, 1.6, 2.0, 2.4]
1
2
   m = 64
   for mu in arr_mu:
       eigens = np.array([-mu/2 * (3 - 4*np.exp(-2j*pi*i/m) +
   np.exp(-4j*pi*i/m)) + mu**2/2 * (1 - 2*np.exp(-2j*pi*i/m) +
   np.exp(-4j*pi*i/m)) for i in range(m+1)])
5
       plt.scatter(eigens.real, eigens.imag, color = 'r')
6
       C = np.array([np.exp(1j*t)-1 for t in np.linspace(0, 2*pi, 1000)])
7
       plt.plot(C.real, C.imag)
8
       plt.show()
```



