EE16A HWO a) VAIBHAY BHAT b) I'm from Irvine, (A. I enjoy running, dancing, and reading. c) The diverse, fun community. A) Electrical engineering e) Electrical engineering & Computer Science " f) Time machine. To crewle this we'd need a way to mars-create g) I we taken Pre-calc and Calculus BC. I we also taken algebrase Physics 182, h) Mac i) The simplistic and streamlined usability of iOS and its desktop counterparts. a) Yes, but space is prioritized to registered students. 6) 2 hu drops c) ipynb file, put file of solution and code printout a) Thursday at 23:57:00 e) Zero 1)3 unexcused labs g) Piezza b) "The rmis 6328 a) It's a flower!

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EE16A: Homework 0

Getting to know iPython

Part (a)

Execute the following mystery drawing, then draw the same object yourself (by hand):

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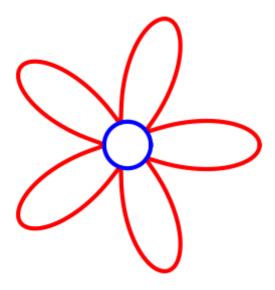
In [1]: %matplotlib inline import numpy as np import matplotlib.pyplot as plt theta = np.linspace(0,2*np.pi, 1000) r = 0.7*np.cos(5*theta) + 1.0 ax = plt.subplot(111, polar=True) ax.plot(theta, r, color='r', linewidth=3) ax.plot(theta, 0.3*np.ones(len(theta)), color='b', linewidth=3) ax.grid(False) ax.set_rmax(2) ax.xaxis.set_visible(False) ax.yaxis.set_visible(False) ax.spines['polar'].set_visible(False)

/Users/vaibhavbhat/anaconda/lib/python3.5/site-packages/matplotlib/font _manager.py:273: UserWarning: Matplotlib is building the font cache usi ng fc-list. This may take a moment.

warnings.warn('Matplotlib is building the font cache using fc-list. T his may take a moment.')

/Users/vaibhavbhat/anaconda/lib/python3.5/site-packages/matplotlib/font _manager.py:273: UserWarning: Matplotlib is building the font cache usi ng fc-list. This may take a moment.

warnings.warn('Matplotlib is building the font cache using fc-list. T
his may take a moment.')



Part (b)

The following code takes the sum of integers 0...10 Modify it to take the sum of integers 0...112

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```
In [2]: total = 0
    i = 0
    while (i <= 112):
        total += i
        i += 1

    print("The sum is " + str(total))

The sum is 6328</pre>
In [ ]:
```