EE16A: Homework 0

Getting to know iPython

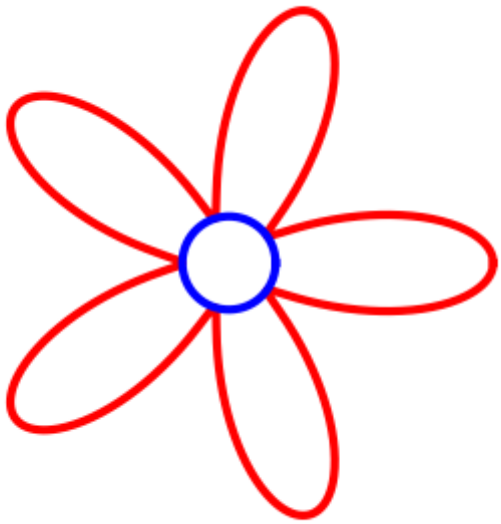
Part (a)

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

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)
```



Part (b)

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

In [3]:
```
total = 0
i = 0
while (i <= 112):
    total += i
    i += 1

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

```
The sum is 6328
```