CS101: Homework #7
This assignment is due by 03/31.
Homework should send to ar238@njit.edu
with a subject line read as: CS101/012 HW#07

Quiz 3.1

7. Plot the function $r=10\cos(3\theta)$ for $0 \leq \theta \leq 2\pi$ in steps of $0.01\pi$ using a polar plot.

3.7 Exercises.

3.5 Create a polar plot of the function $r(\theta)=\sin(2\theta)\cos(\theta)$ for $0 \leq \theta \leq 2\pi$.

3.14 The Spiral of Archimedes. The spiral of Archimedes is a curve described in polar coordinates by the equation

$$r = k \theta$$

where $r$ is the distance of a point from the origin and $\theta$ is the angle of that point in radians with respect to the origin. Plot the spiral of Archimedes for $0 \leq \theta \leq 6\pi$ when $k = 0.5$. Be sure to label your plot properly.