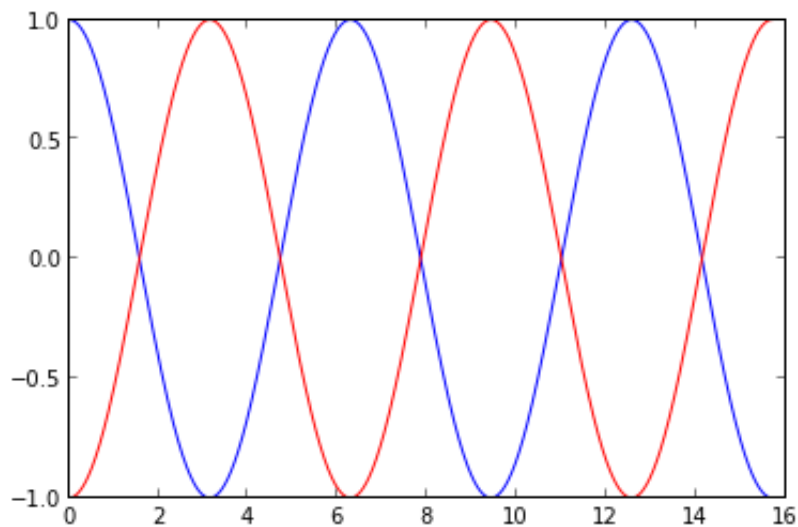# Lecture 5 demo

Demo of plotting $y = \cos(x)$ and $y = -\cos(x)$

```
In [8]: x = linspace(0,5*pi,1000)
        y = cos(x)
```

```
In [9]: print y[100]
```

```
        -0.00157236804758
```

```
In [10]: plot(x,y)
         plot(x,-y,'r')
```

Out[10]:   [<matplotlib.lines.Line2D at 0x10f427690>]


```
In [10]:
```