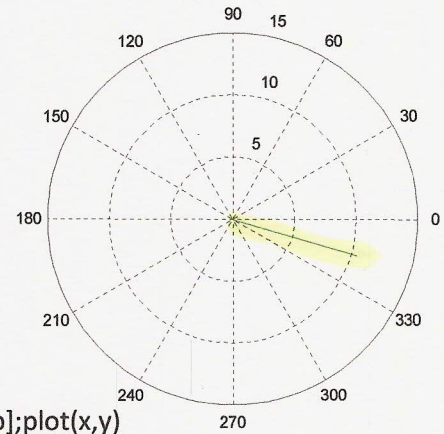


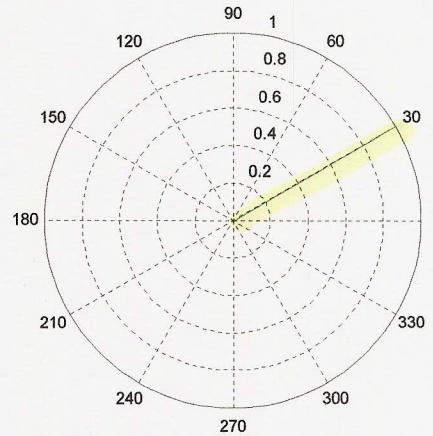
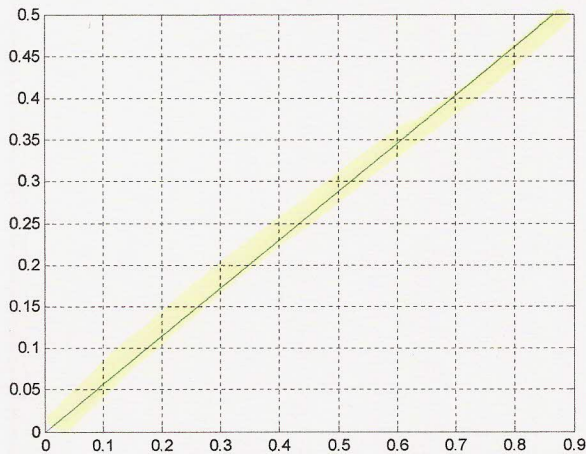
1. Plot each of the following complex numbers as vector in the complex plane:

a. $(10-3j)$ Matlab: `[t,r]=cart2pol(10,-3);theta=[0,t];rho=[0,r];polar(theta,rho)`



b. $e^{j\pi/6}$ matlab: `[a,b]=pol2cart(pi/6,1); x=[0,a]; y=[0,b];plot(x,y)`

`theta=[0,pi/6];rho=[0,1];polar(theta,rho)`



c. $\frac{2+2j}{6} - \frac{1-j}{4} = 0.0833 + 0.5833j$ Matlab: `a=real(((2+2i)/6)-((1-i)/4));`
`b=imag(((2+2i)/6)-((1-i)/4));x=[0,a]; y=[0,b];plot(x,y)`
`[t,r]=cart2pol(0.08330,0.5833);theta=[0,t];rho=[0,r];polar(theta,rho)`

