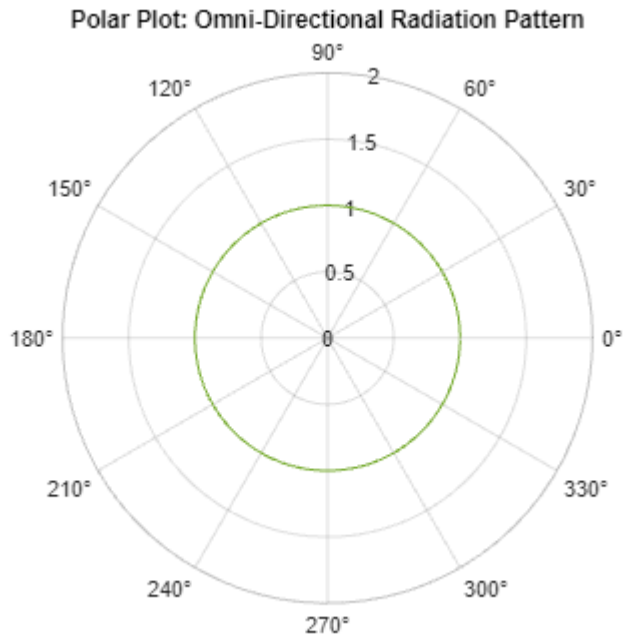


```

s=pi/300;
theta=0:s:2*pi-s;
Hdipole=sin(theta);
figure
HOMNI=ones(length(theta));
polarplot(theta,HOMNI)
title('Polar Plot: Omni-Directional Radiation Pattern')

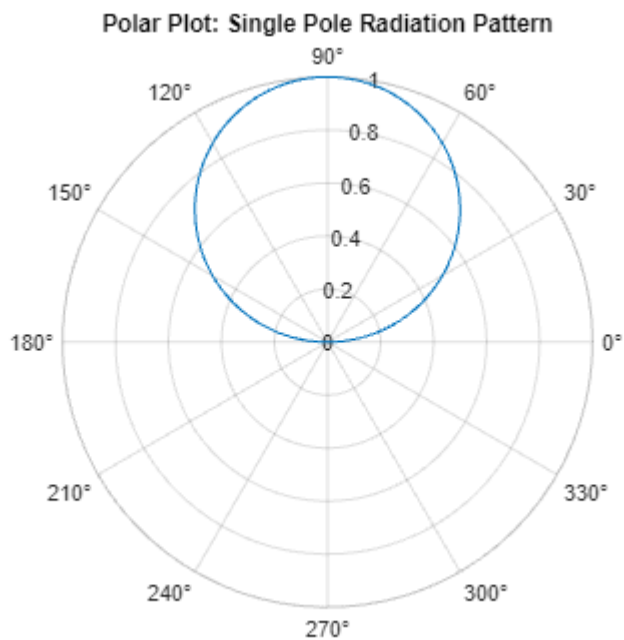
```



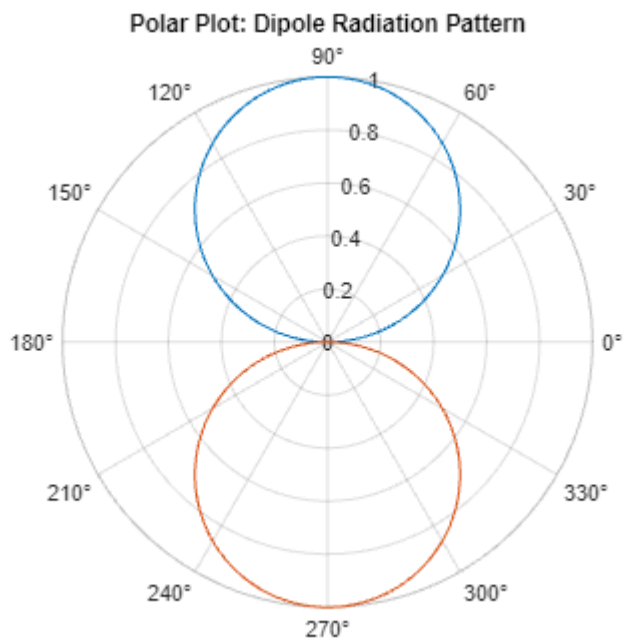
```

figure
polarplot(theta,Hdipole)
title('Polar Plot: Single Pole Radiation Pattern')

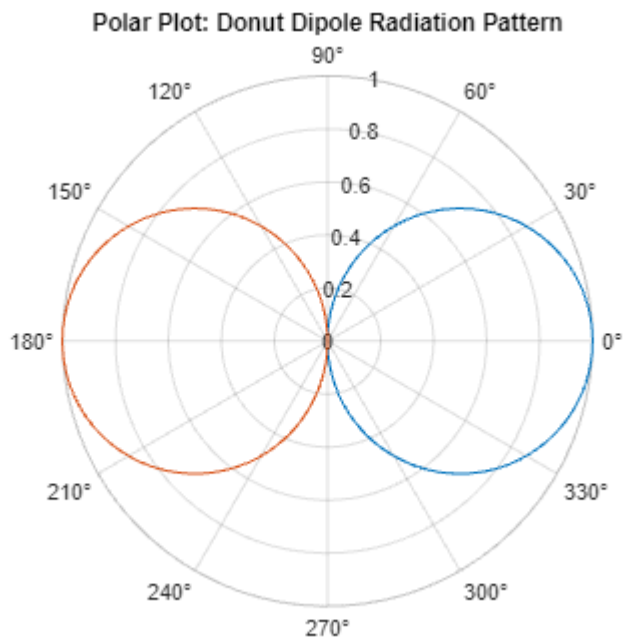
```



```
figure
polarplot(theta,Hdipole)
hold on
polarplot(theta,-Hdipole)
hold off
title('Polar Plot: Dipole Radiation Pattern')
```



```
figure
HDonut=cos(theta);
polarplot(theta,HDonut)
hold on
polarplot(theta,-HDonut)
hold off
title('Polar Plot: Donut Dipole Radiation Pattern')
```



```
figure
% HTDI=[Hdipole, -Hdipole];
% HOMNI
Hc=(1+sin(theta))/2;
figure
polarplot(theta,Hc)
title('Polar Plot: Cardioid Radiation Pattern')
```

