Scilab Manual for Antenna Wave Propagation by Mr Darshan Modi Others VESIT[1]

Solutions provided by
Mr. Prarthan Mehta
Electronics Engineering
Dharmsinh Desai University

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Experiment: 1

Radiation pattern of half-lambda dipole

Scilab code Solution 1.1 Radiation Pattern of Half Wave Dipole

```
1 //radiation pattern for the half wave dipole antenna
2
3 phi=linspace(0,2*%pi,1000);
4 rad=abs(sin(phi));
5 k=1; //the multipliccation factor depends on the
     current and the length of the dipole antenna
6 polarplot(phi,k*rad)
7
8
9 //Input Constant==> k-->Depends on the current and
     the length of the dipole
```