Homework Problem A6.27

Write a computer program (in Matlab or any other program language) to plot the far-field radiation pattern similar to Figure 6-9 in the textbook.

- Generate the 3-D field pattern.
- Find the numerical value for the angular separation (in degrees) between two points whose radiated electric field is $1/\sqrt{2}$ of the maximum for (a) $E$ plane and (b) $H$ plane, assuming $a = \lambda/4$.
- Attach your program with your homework submission.