- 1. What is the relationship between the aperture-size and beamwidth of an antenna?
- How do sidelobes cause an uncertainty in determining the angle of arrival of a signal?
- Derive the expression given above for far-field distance, i.e.
 - $R = 2 \frac{D^2}{\lambda} / \lambda$
- 4. What is the relation, if any, between the nomenclatures (i) θ and ϕ polarization, and (ii) vertical and horizontal polarization.
- What is the radiation pattern for a half-wave dipole antenna
 - in the plane normal to the dipole?
 - In the plane containing the dipole?

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