

9.23 For a dipole antenna of length $l = 3\lambda$, use Module 9.2 to determine:

- (a) Approximate directions of maximum radiation.
- (b) Antenna directivity.
- (c) Antenna radiation resistance.

Solution: (a) According to the radiation pattern, the radiation is maximum along $\approx \pm 45^\circ$ and $\pm 135^\circ$.

(b) Directivity = 3.03.

(c) Radiation resistance = 295.75 Ω .

