

Homework Set #2**Due: 4-9-12**

- (1) Assume 500 nm light can be represented by a plane wave in a region of space. It's propagation direction is given by a vector lying in the xy-plane, 30° below the x-axis. At $t = 0$, at the origin, it is observed that the electric field magnitude is 1800 V/m. Write a possible real expression for the magnetic field component of the light in that region of space.
- (2) Text 2.22.
- (3) Text 2.26
- (4) Text 2.29
- (5) Text 2.33
- (6) Text 2.34