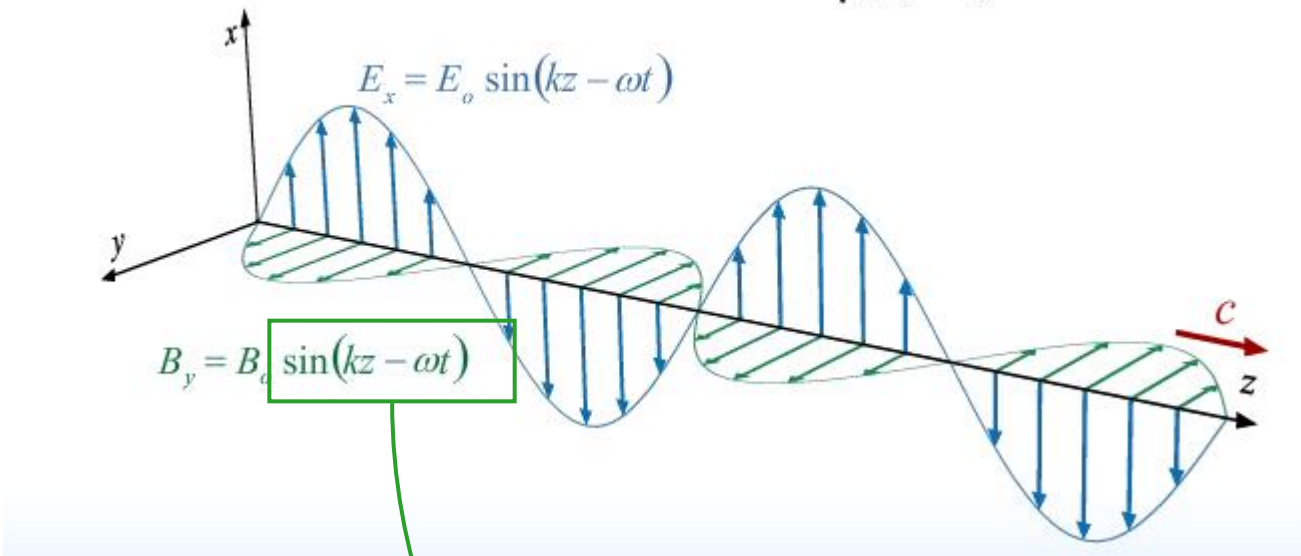


Plane Waves from Last Time

$$\text{Velocity } c = \frac{\omega}{k} = \frac{1}{\sqrt{\mu_0 \epsilon_0}} = \frac{E_0}{B_0} = 3 \times 10^8 \text{ m/s}$$



E and B are perpendicular and in phase

Oscillate in time and space

Direction of propagation given by $E \times B$

$$E_0 = cB_0$$

Argument of \sin/\cos gives direction of propagation