$$y(x,t) = A\cos(kx - \omega t)$$

$$\frac{\partial^2 y}{\partial x^2} = \quad -k^2 \quad A\cos(kx - \omega t)$$

$$\frac{\partial^2 y}{\partial t^2} = \quad -\omega^2 \quad A\cos(kx - \omega t)$$

$$k^2 \quad A\cos(kx - \omega t) = \quad (\frac{k^2}{\omega^2}) \quad \omega^2 \quad A\cos(kx - \omega t)$$

$$\frac{k}{\omega} = \frac{2\pi/\lambda}{2\pi f} = \frac{1}{f\lambda}$$

$$\frac{\partial^2 y}{\partial x^2} \quad = \quad \frac{1}{V^2} \quad \frac{\partial^2 y}{\partial t^2}$$

$$\frac{\partial^2 E}{\partial x^2} \quad = \quad \frac{1}{c^2} \quad \frac{\partial^2 E}{\partial t^2}$$

$$\nabla^2 E \quad = \quad \frac{1}{c^2} \quad \frac{\partial^2 E}{\partial t^2}$$