

# LATEX

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## 1 Getting Started

- a)  $\gamma^2 + \theta^2 = \omega^2$
- b)  $\vec{\nabla} \cdot \vec{E} = \frac{\rho}{\epsilon_0}$
- c)  $\vec{\nabla} \cdot \vec{B} = 0$
- d)  $\vec{\nabla} \times \vec{E} = -\frac{\delta \vec{B}}{\delta t}$
- e)  $\vec{\nabla} \times \vec{B} = \mu_0 \left( \epsilon_0 \frac{\delta \vec{E}}{\delta t} + \vec{J} \right)$

## 2 What about Matrix Equations?

$$\begin{pmatrix} a_{11} & a_{12} & \cdots & a_{1n} \\ a_{21} & a_{22} & \cdots & a_{2n} \\ \vdots & \vdots & \ddots & \vdots \\ a_{n1} & a_{n2} & \cdots & a_{nn} \end{pmatrix} \begin{bmatrix} v_1 \\ v_2 \\ \vdots \\ v_n \end{bmatrix} = \begin{matrix} w_1 \\ w_2 \\ \vdots \\ w_n \end{matrix}$$