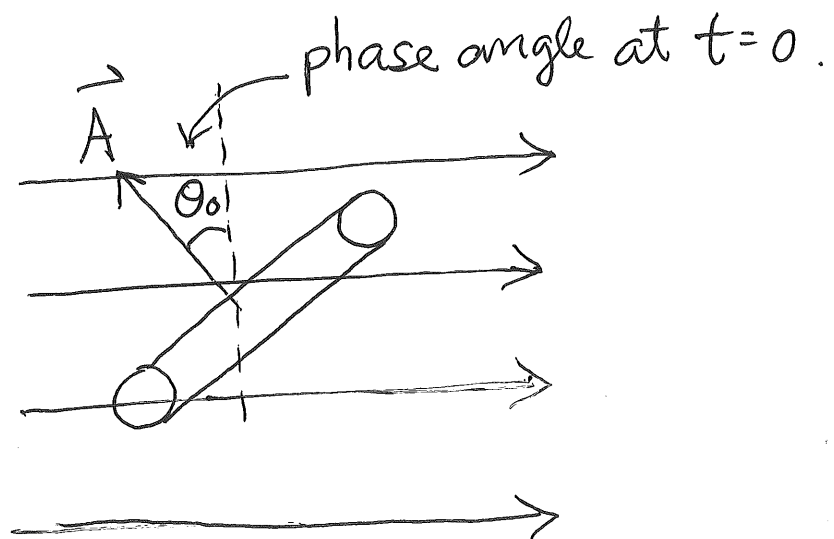
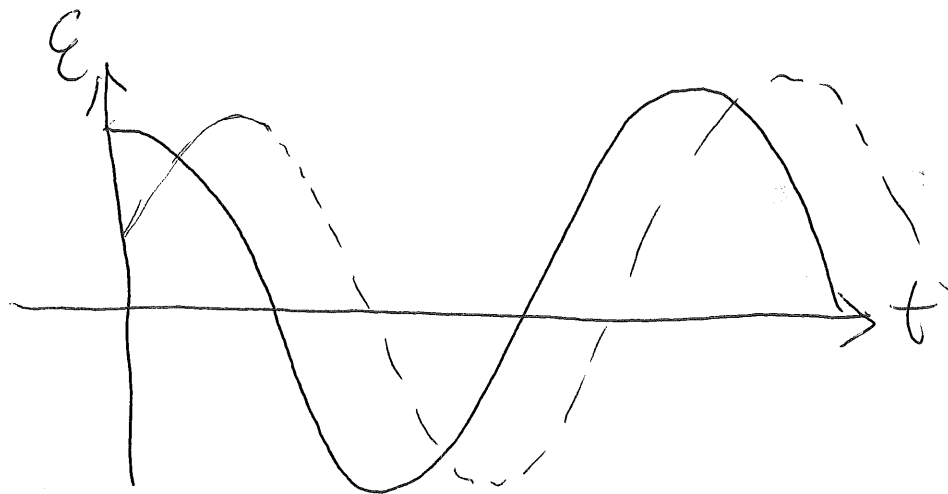




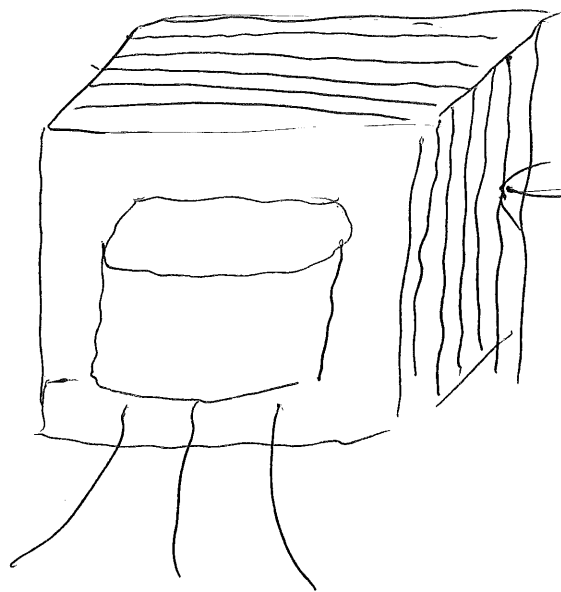
$$\vec{B} \cdot \vec{A} = BA \cos(90^\circ + \omega t + \theta_0)$$

$$\mathcal{E} = NBA\omega \cos(\omega t + \theta_0)$$

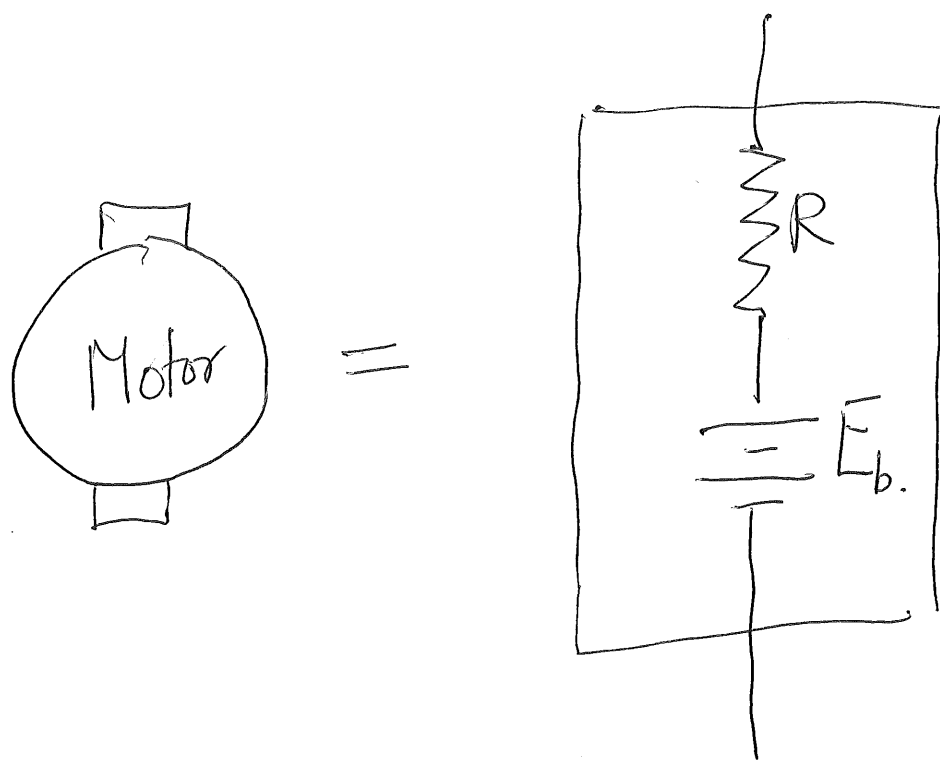


Mechanics : Gravitational potential $\xrightarrow{\text{Friction}}$ Heat.

Electricity & Magnetism : Electric & Magnetic field. $\xrightarrow{\text{Eddy Current}}$ Heat.



Don't want
Eddy current.



$$\text{Applied voltage} = IR + E_b.$$