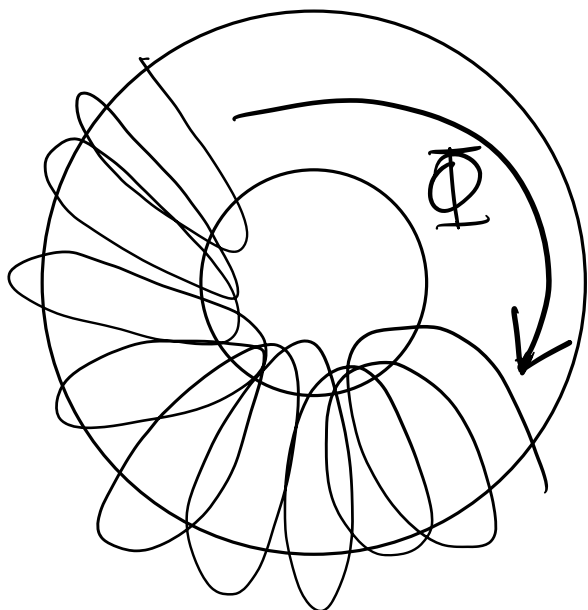$B = NH$
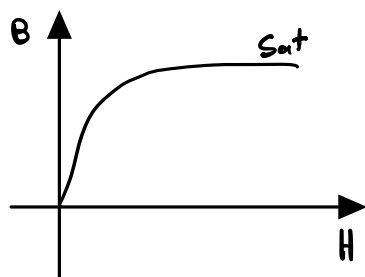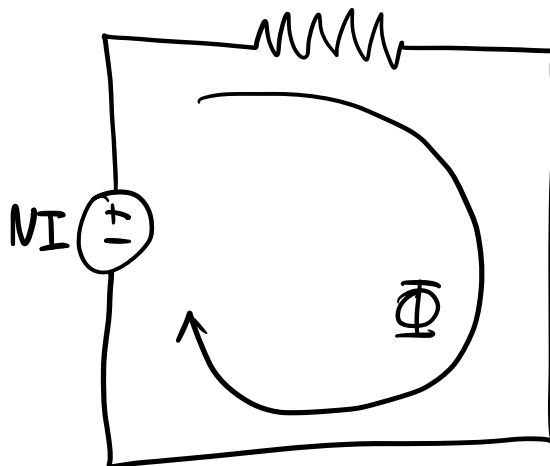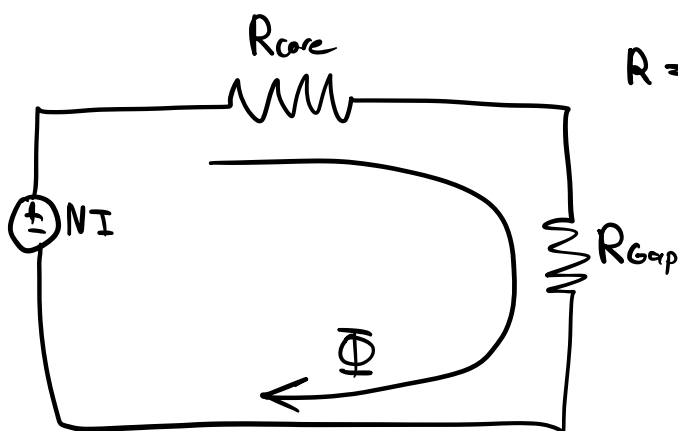
$$R_{core} = \frac{l_{core}}{\mu_0 \mu_r A}$$

Gapped Inductor

$$R = \frac{1}{\mu_0 \mu_r A}$$