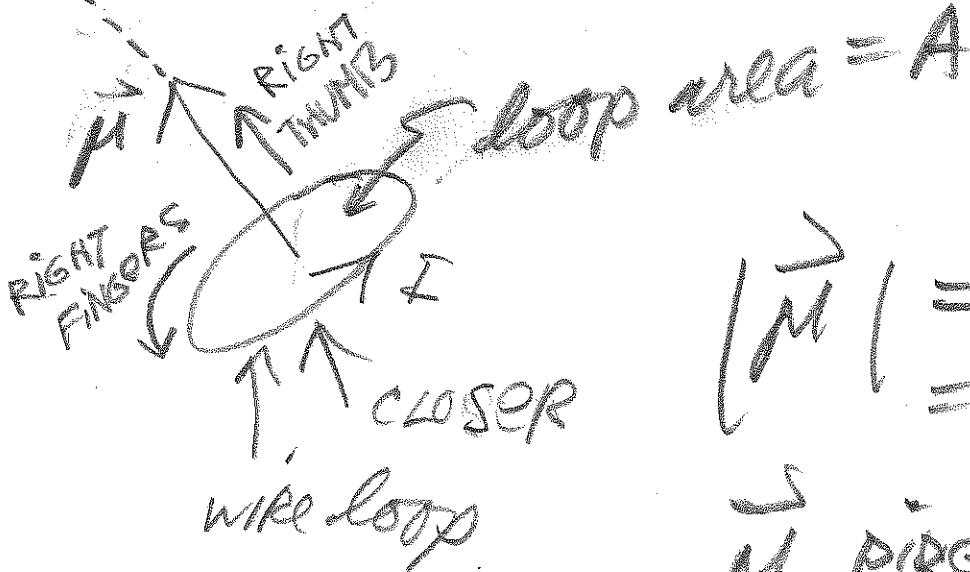


4B 4-2-19 supplement

eye

Fig 27.31

\vec{M} direction and magnitude.

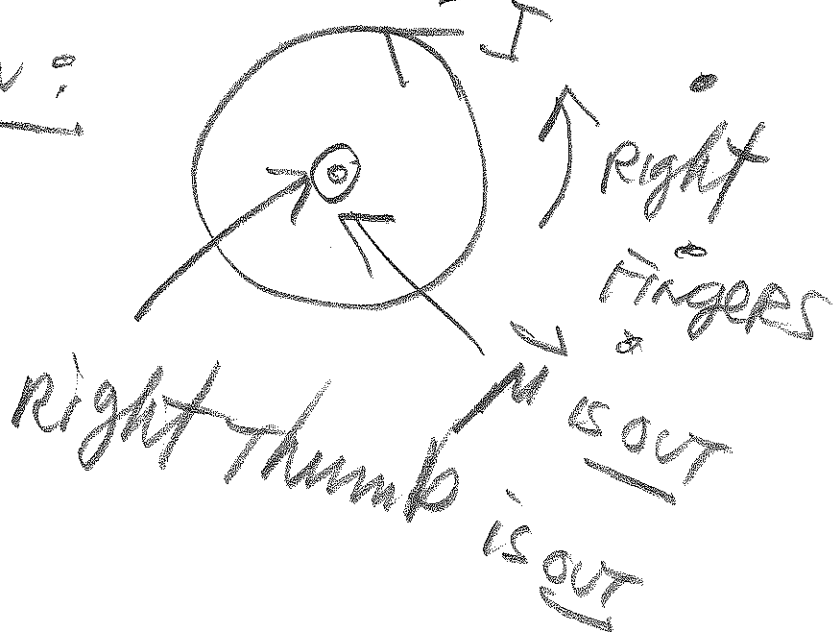


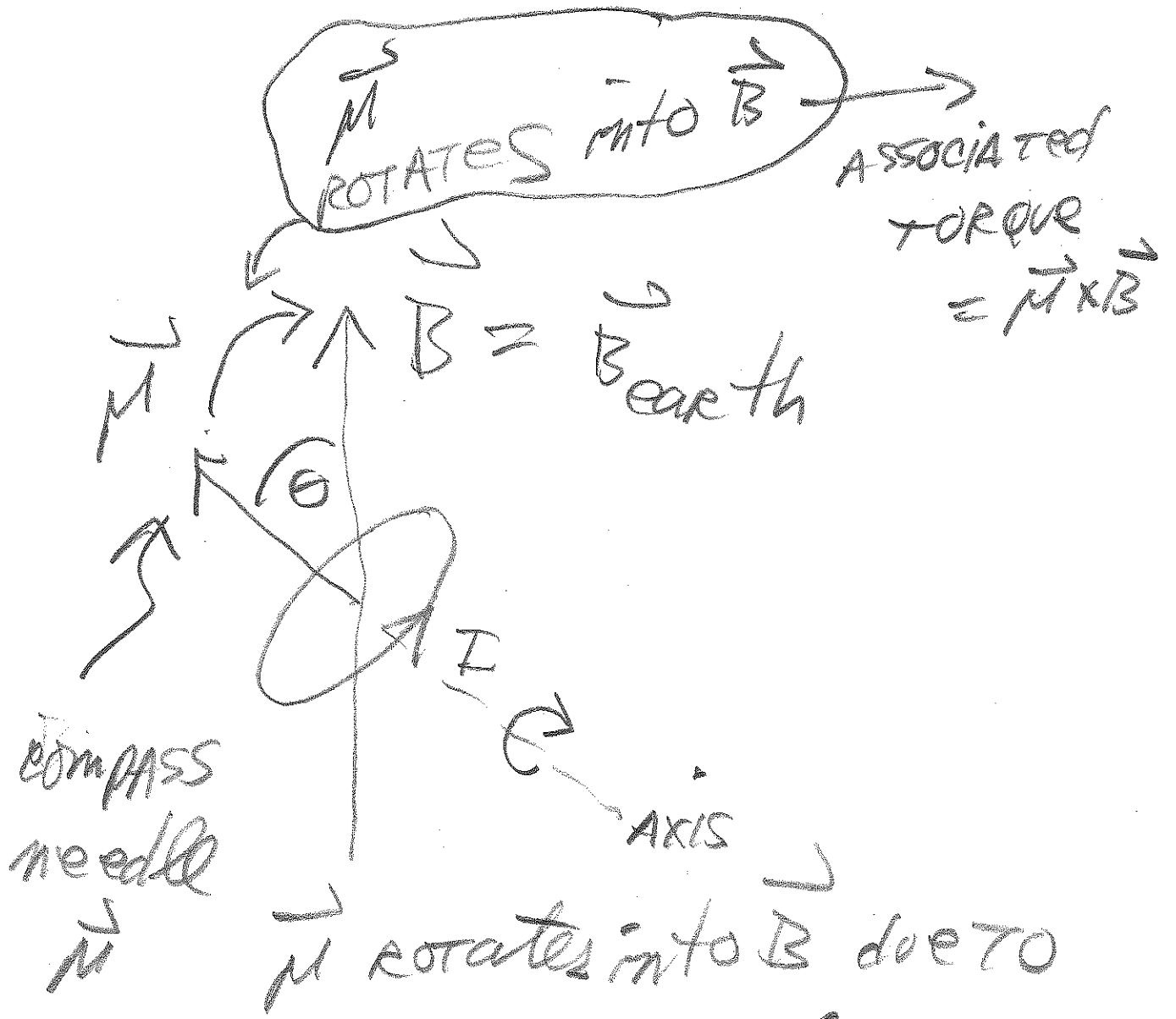
$$|\vec{M}| = I \cdot \text{area}$$

$$= I \cdot A$$

\vec{M} direction from RIGHT HAND RULE.

eye view:





$$\tau = |\vec{\tau}| = |\vec{M}| \cdot |\vec{B}| \sin \theta$$

$$\tau = MB \sin \theta \quad \text{MAGNITUDE}$$

Big APPLICATION: EVERYDAY COMPASS.