

Class XI, Torque

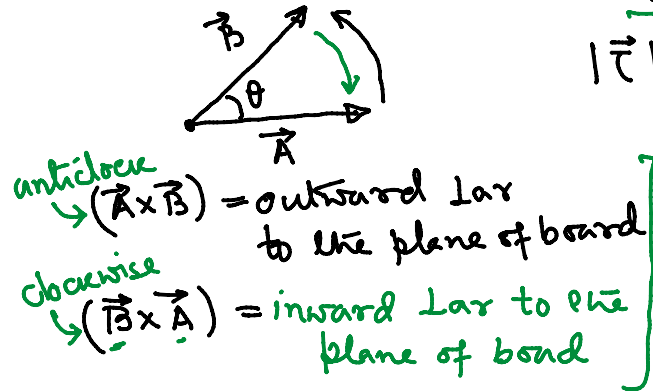
Wednesday, November 3, 2021

8:58 AM

Torque :

$$\vec{\tau} = \vec{r} \times \vec{F} \quad \text{--- (1)}$$

$$|\vec{\tau}| = |\vec{r}| \cdot |\vec{F}| \cdot \sin\theta \quad \text{--- (2)}$$



$$|\vec{\tau}| = r \cdot F_1 \quad \text{--- (3)}$$

$$|\vec{\tau}| = F \cdot (ON) \quad \text{--- (4)}$$

↳ Lever arm

Ex 1 :

