$$\vec{A} = A_x\hat{\imath} + A_y\hat{\jmath} + A_z\hat{k}$$

$$\vec{B} = B_x\hat{\imath} + B_y\hat{\jmath} + B_z\hat{k}$$

$$\begin{aligned}\vec{A} \times \vec{B} \quad &= \quad (A_yB_z - A_zB_y)\,\hat{\imath} \quad + \\ & \quad\ \ (A_zB_x - A_xB_z)\,\hat{\jmath} \quad + \\ & \quad\ \ (A_xB_y - A_yB_x)\,\hat{k}\end{aligned}$$

$$\vec{A} \times \vec{B} \quad = \quad \begin{vmatrix} \hat{\imath} & \hat{\jmath} & \hat{k} \\ A_x & A_y & A_z \\ B_x & B_y & B_z \end{vmatrix}$$

$$\vec{\tau} \quad = \quad \vec{r} \times \vec{F}$$