* Angular Momentum [= 3x7. L=8psino Supres L= mvo or L= IW T = Tdw T=IX Conservation of angular momentum I.WI = I2W2 A = (4) dolla pass to our

5.1 LAW OF CONSERVATION OF ANGULAR MOMENTUM

In case of translation motion, we define force as $\vec{F} = \frac{dp}{dt}$.

For rotational motion, we define torque.

$$\vec{\tau} = \frac{d\vec{L}}{dt}$$

So if the net torque on a particle (or system) is zero; $\frac{d\hat{L}}{dt} = 0$,

i.e.,
$$\overrightarrow{l}$$
 = constant.