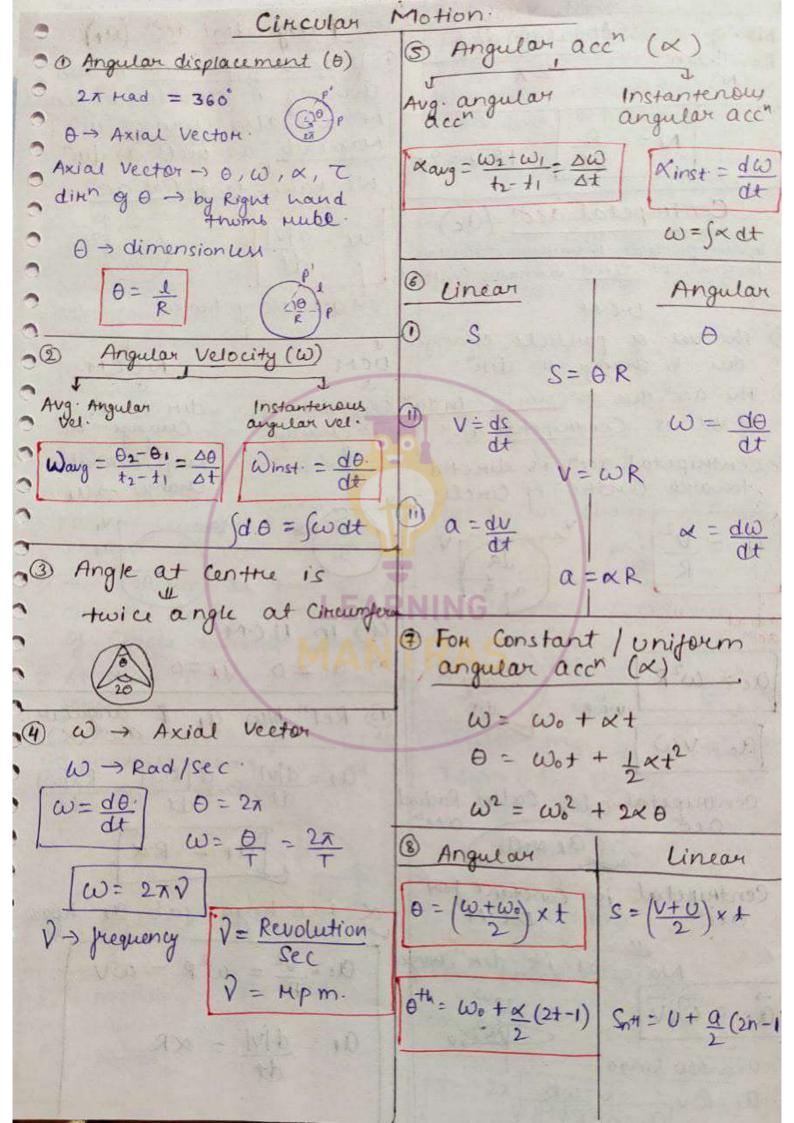




Handwritten Notes On Circular Motion







Tangential acc (at) Angular disp 1) If speed of particle is also No · of Revolution changing in cincular motion 27 (N) i.e vel. also <u>Changes</u> in Magnitude as well as dix N= D | | Rev = 2x We have tangential acc $0 + \frac{d|v|}{dt}$ Centripetal acch (ac) 1) When particle is uniform Circular motion, it speed vienains Constant ls act along tangent 1 The Vel of particle changes NUCM UCM due to change in dith. din of V 1 The accorduce to change indire only din of change - ac W Changy of vel is <u>Centripetal</u> acc magnitude also (1) Centripetal acch is directed ac Changes - at towards centre of circle on) In U.C.M Radial $\alpha_c = \omega^2 R$ a) ac = 0 / at = 0 10 Rel 1 b/w at & angular acci (x) ac = vw $at = \frac{d|v|}{dt} = \frac{d[R\omega]}{dt} = \frac{Rd[\omega)}{dt}$ Centripetal also Called Radial acchange Qt = RXCentripetal is Constant for occident & tab hoga. Jab at hoga No. as its dim changes $\alpha = \frac{v^2}{R} = \omega^2 R = \omega V$ $\vec{\alpha}_c = \vec{\omega}_x \vec{v}$ $at = \frac{d|v|}{dt} = xR$ ac = wu singo ac=wv v=wR ac=w2R

