Phys 2110-4 4/8/13

Note Title 4/8/2013

Right-randed Rotations Sense ω_{1} $\Delta \vec{\omega} = \vec{W}_z - \vec{W}_z$ connect defis in terms

Heed rector operation called coss-product. scalar. A.B, 201 product A×B=C chis When is victor O is angle between À & B. Tisperp. to both A & B Magnitude of C15 1 C / = A B Ismo Div. of C is det d by

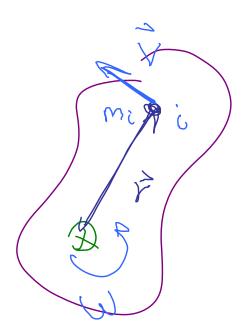
11 ght - hand rule. C AND B

Thumb gos in dir & C Def of forque really involves cross product コーマメデ

 $\widehat{A} \times B = (A_y B_z - A_z B_y) (1 + (A_z B_x - A_x B_z)$

Bushlar L = IwZ==JW weway T = T. 15 = 5 W/ $b^{x} = w_{1}^{x}$ F=mc leg m² s = kg m² ll action L = Iw unts argular, moment my treatly a vector, I = Iw Keal det of angular mom. L=TxP

Before disc. dects, axx) In this px, find = for little man. What is rxp? Vectory points into boad. 12/2 myb the more on to rotating 11912 badg.



$$\begin{array}{l}
\overline{)} = (m_i v_i) v_i \\
= (m_i v_i w) v_i \\
= (m_i v_i) w
\end{array}$$