NEAT SHEET perforated pages Mead® Learn. Organize. Create.

A. P. PHYSICS 1 SUBJECT COLLEGE RULED

Spiral NOTEBOOK

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10½ IN x 7½ IN 26.6 cm x 19.0 cm

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70 SHEETS

FORMULA

THE HEID IN

$$\chi = v_0 t + at^2$$

$$\theta = \omega_0 t + a t^2$$

$$V^2 = V_0^2 + 2ax$$

$$a_R = \frac{v^2}{w}$$

$$TME = k + U$$

$$U_e = \frac{kx^2}{2}$$

$$F_G = G m_1 m_2$$

$$- \kappa^2$$

$$m_1 v_{01} + m_2 v_{02} = m_1 v_1 + m_2 v_2$$

SYSTEM DEFINE CO-ORDINATE

KINEMATICS. TO COMM SALWIN

- · Displacement Change in position (DX) Sv=DS Sa=V d DB=V d V=a $V = \Delta S$ $\overline{A} = \Delta V$
 - a and v in different direction > speed decreasing

 - x and y motion independent of each other For \overrightarrow{V} $v_x = V \cos \theta$ $v = \sqrt{V_x^2 + V_y^2}$ $tan \theta = V_y$ $V_y = V \sin \theta$
 - V= Vo + at; D8 = Vot + at2; V2 = Vo2 + 2a D8 2 UNITS as - meters (m) v - meters | sec (m/s) a - meters | sec2 (m/s2) t-sec(s)

o distance Georgia believes Fordi DYNAMICS

- Law of Ineutia An object will continue in acted upon by an outside force
- Weight = mg \(\sum_{\text{F}} = m\vec{a}\)

 L'Action/React
- For every oction there is L'Action Reaction an equal and opp reaction Normal Force-Support
- force FAB = FBA Contact Porce - Perpendicular
- Pulleys Change direction FRICTION: Fors = FNUs - Not moving (static).
 - Fire = Fine Moving (kinetic)

 Draw free body diagram Force exotch

mgsin 0

F- Newtons (N) M- Kilogram

FT > pulls toward center of cord

· atan = Ø > uriform atan +Ø > non-uriform

DEFINE CO-CLDINATE SYSTEM

- acceleration towards center (ap or ac)
 $a_R = \frac{V^2}{h} F_R = ma_R$
- Fg = Gm₁ m₂ μ = difference between CMs
- V=2TTr gravitational field strength halfway

 between two objects is a V+ VO + at ; DE = VOT + OF = VOZ + TAK

CHM) SIE COLORY! ENERGY.

- · W = Fcos Od d = distance O = angle between Fand d
 Forces abithed with Key = mv2

- 111 2 MITE AS - 17 (LOS) 10)

- · Wsubtotal = DK to
 - Ug = mgh

STILL

pyleroll -

- TME = E = EK+EU bornwest alle passon o mi
- EO+WNC = E1 military of the P=W=AE=Fd
 - At At At

- CONSERVATIVE
- · TME conserved
- · work done by force
- work done by force . work done by force doesn't depend on path depends on path
- · Gravitational force
- · Frictional force · Elastic price
 - · Applied force
 - . Total Energy of closed

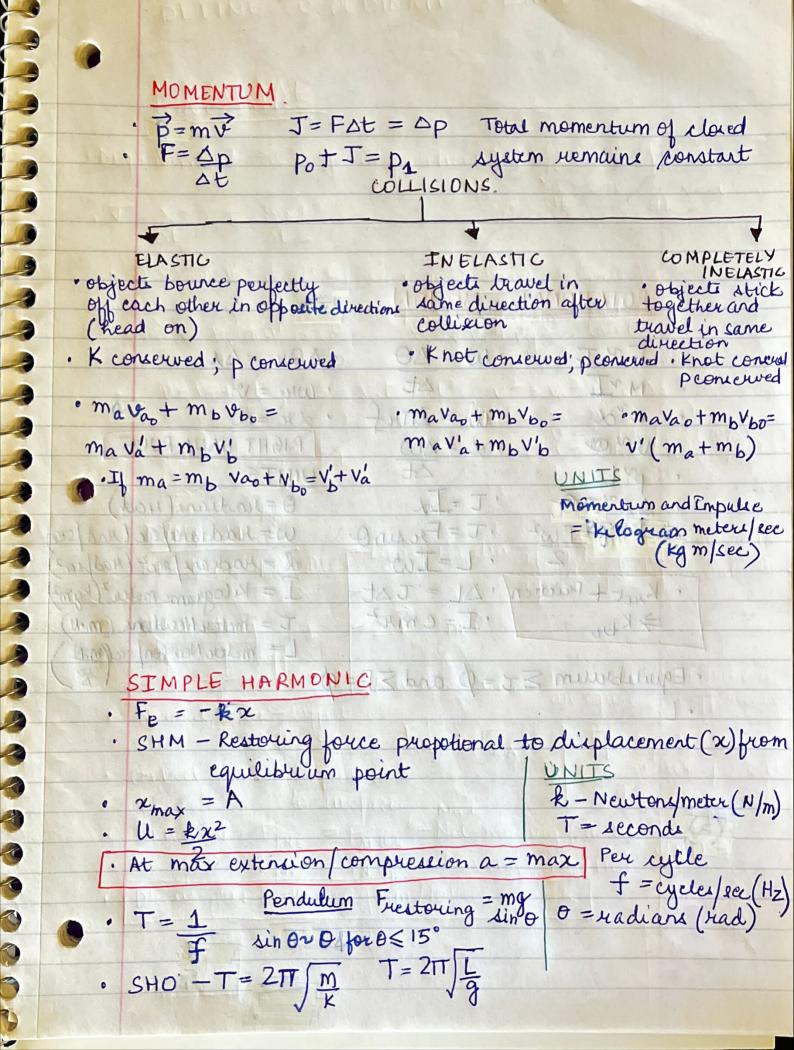
NON-CONFLVATIVE . TME not conecural

6

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C

- = FV UNITS:
 - · Nork and Energy = Joules (I)
- What = 1 A K sound margare productions and



J=FAt = Ap THA manualum I clard pt I = p, I system warmer sombot 2140 PLLIAL. STELLETTO ROTATIONAL MOTTON FVT ·W = DO · DOr = DS DOGWOOD MaI At · WH = 9 and w = 2Thf = UV m+ + OV vow de su · du = a RIGHT HAND RULE bat UNITS & ME AM IL 1 5° DO 0 = radiane (rad) $K_{\text{rot}} = \frac{\Gamma \omega^2}{2}$ · T = Fersin O w = radiane/sec (rad/sed) · L=Iw a = rachare sec2 (rad/sec2) I = Kilograms meter 2 (kgm²) Knot + Fuction · DL = TSt · I = cm2 ⇒ Kto T = meter Newtons (m.N) L= meter Newton/sel/min · Equilibrium $\Sigma_{\tau} = \emptyset$ and $\Sigma_{\tau} = \emptyset$ · CHM - Postobing was prophered to displacement (x) wen triply or which was D-Marting moder (Nm) (3) Whow To 11 mit whing on anyward a - may per tendatum Fueleung Life & Huderans (had रामिण विकास विद्रार्थ