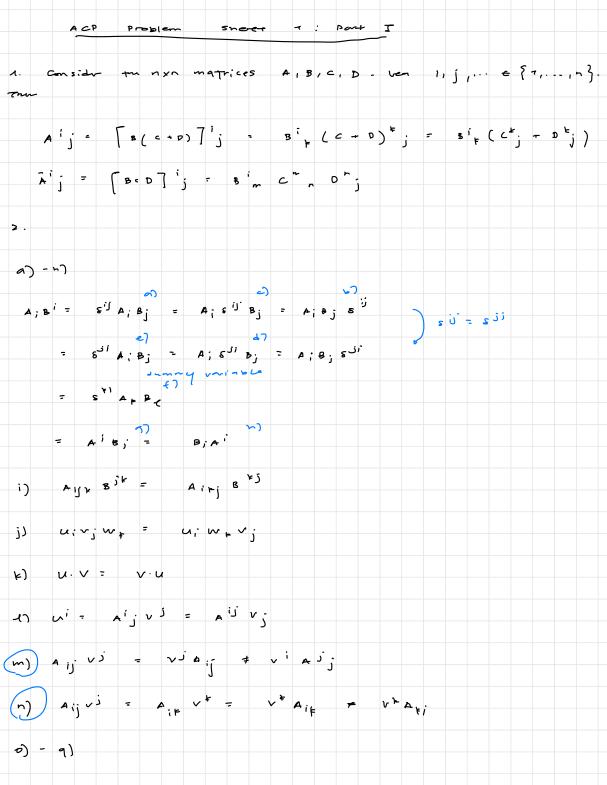
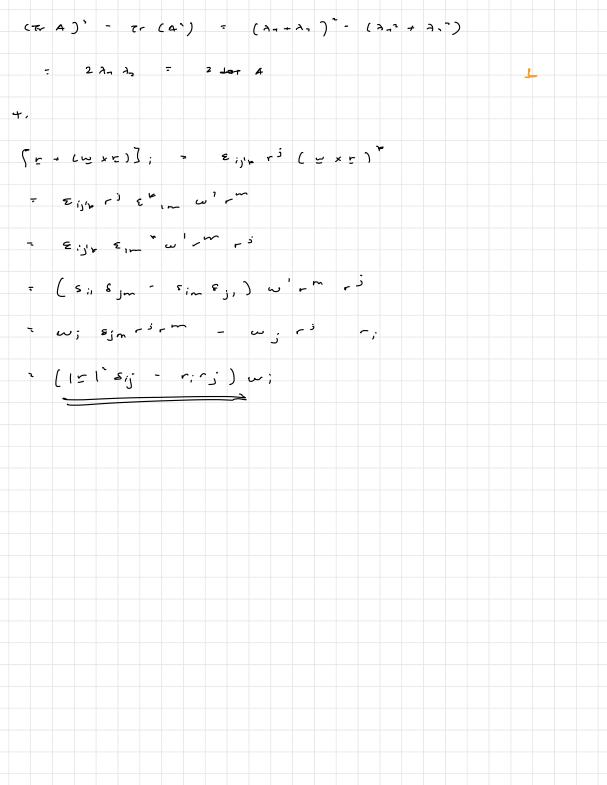
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ACP Papelil Feedback 1 : port I There is very nion and inquesting geometry on I open morent benind torsas le um trino of trem os muti-line maps from vear spaces, so give a condinate eymen me may represent then it as mutitimensimal materices, The transformation properties are crucia, so not my matrix is a senso, e.g. fruits = (# # - epal ) is not a spariar vector even though it loops lith one. Given any very, it's a matter of my choice of coordinates what the components of the vect will a orwaling be ! For a Cpig) - temm T, we use index notation to because 1+3 (i, ..., i, , , , , , , ). +~ exemed => es am an 40-2 2.7. T 40 7 7 8x T x B U + v - U - T x B (+15 Benerally important to distinger; h -17 from down in sice? at us on Ensien summation convention when they in pan i up ,;. c. 5 αβ 7 αγ = Σ 5 7 αγ however on flat confesion space we use the merric unemia un bairo / lover in Lices is g > 8, 50 and a amperens (red)

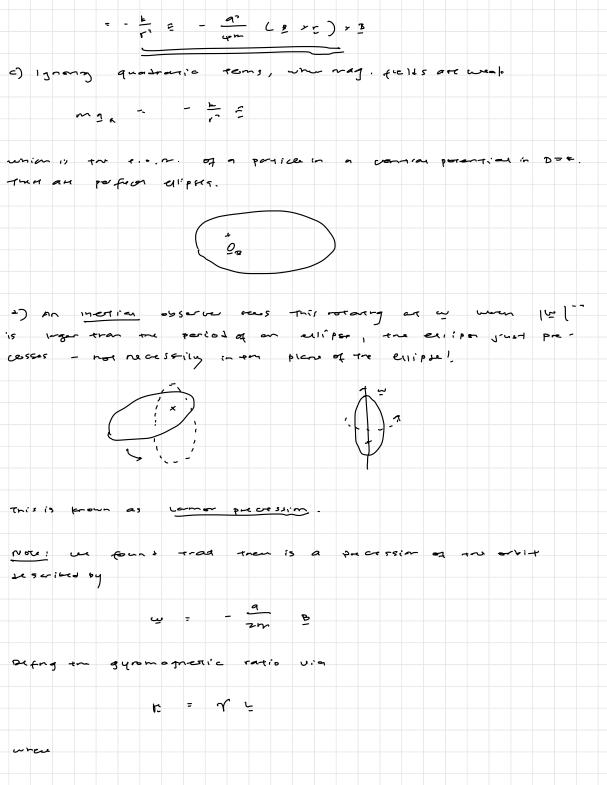
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$$A_{ij} = 0 \quad A_{ij} = 0 \quad A_{$$



The same partition 
$$\frac{dx}{dx} = \frac{dx}{dx} = \frac{dx}{dx}$$



2 - H Y B it toms .ua that shis shows true 8 = <u>29</u> zm , 3 ° ° predictly. very invertorrally, the quantum me ananical por h'orim er a Dirac fermin, eg, ele orion is 9 2 The QET correcting to this and when me forse subleading term was found by J. sowings and is engraved on his tembstone. The corrections are thoun up to O(x5) and match, experiments up to 12 DP. nnis is the most accurately verified pudionin in all of science. on aromalous magnesic lipole moment of muons is a un que measurement for new physics! 2. For coult pen son un a) (spherical) earth, win coordinate system on P. The Coriolis force poins towards y x w ~ 9 x ( 9 7 - 2 ) ~ 9 y 2 = 3

~ + · · · · · · · · we store the pensalum from our at x= a ma y=0, so 7 (T=6) = A+B = Q = (+=0) = -1.52 (A+8) + 10, (A-B) = 0 A-B = = q  $A = \frac{\pi}{2} \left( 1 - \frac{\pi}{\omega_n} \right) \qquad B = \frac{\pi}{2} \left( - \frac{\pi}{\omega_n} \right)$ Earth man man man man 52 cc up , 50 Q .. ~ , and Furings, so 2 = e -ise . = (e ; wat + e -iwat ) = 0 = (2, (2, 4) x (+) = a cos ( 12 + ) cos ( w - 17) y (+) = - a sin ( 52+ ) == ( an +) 2) Note that in polar continutes (x, y) > (p, d)

p = ( a ~ 65' (w ~ 1) ( as' sit & sin' sit )) ] = a as (wat) 4 - ar aran (-+ - cr +)) = - srt mis de scribes a pensulan surgirg as us in a plane At 2: 57.5°, The plane rotates with portad  $T = \frac{2\pi}{2} = \frac{2\pi}{2} = \frac{2\pi}{2} = \frac{2\pi}{30.67 \text{ hours}} = \frac{30.67 \text{ hours}}{30.67 \text{ hours}}$ This is the latitude for e.g. In Foce rouly pendulum in the saena mueran!