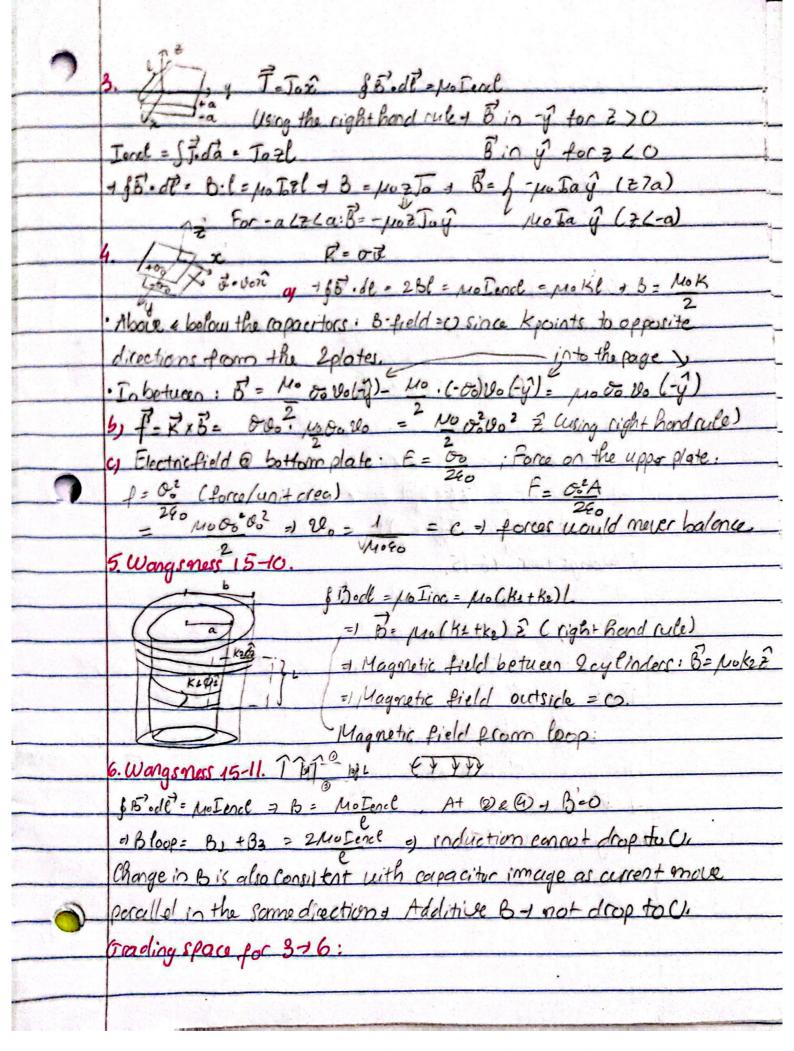
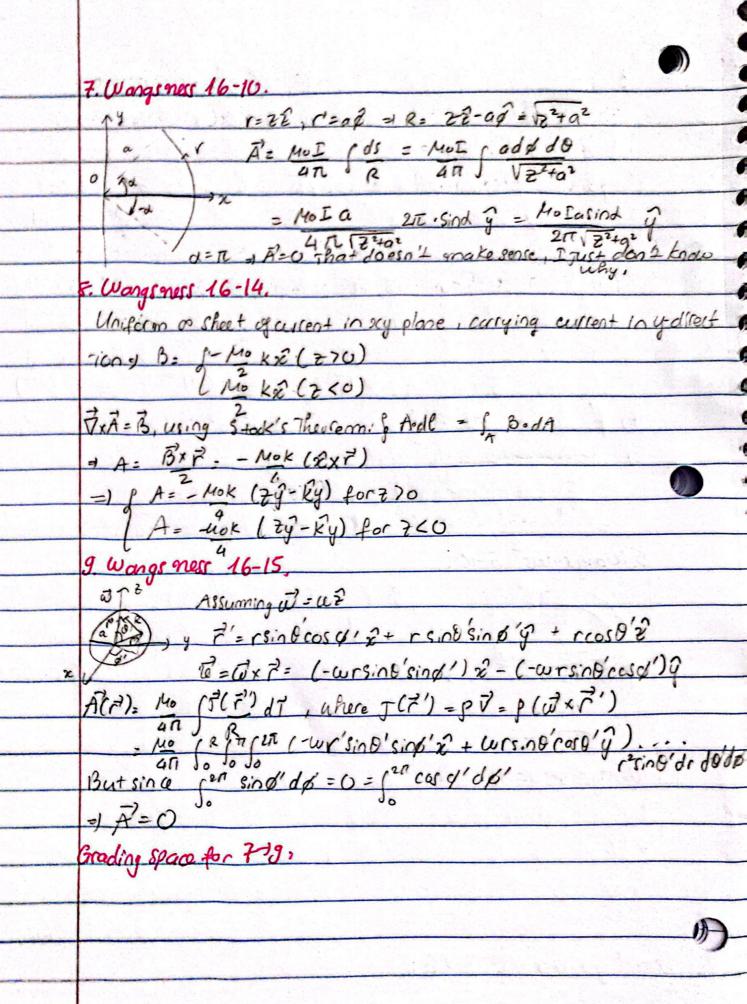


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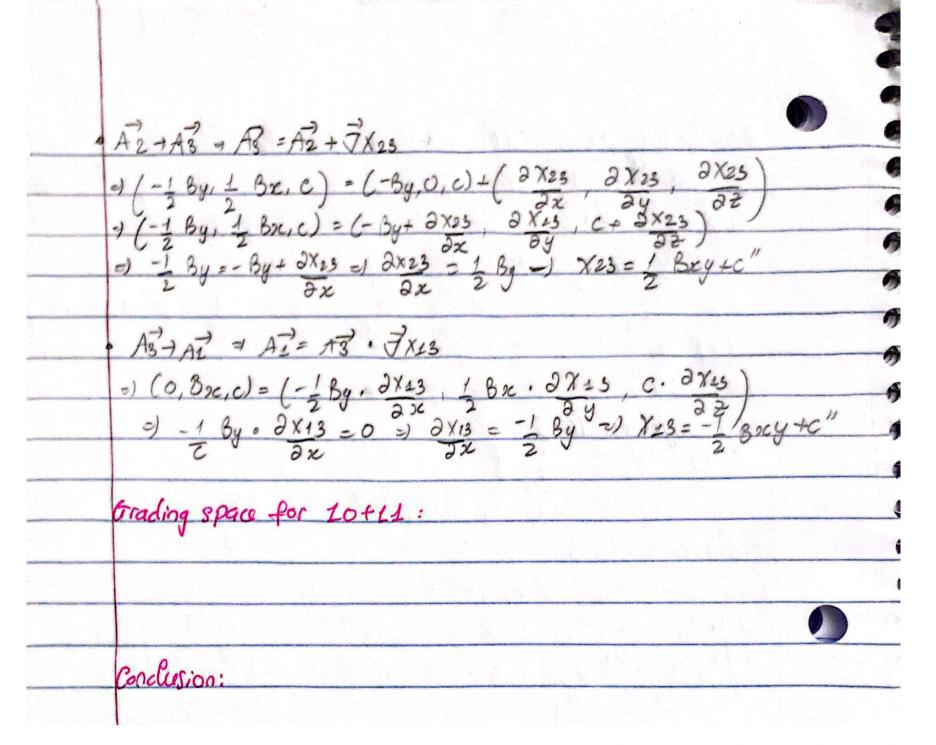
In L= \de dt = \taut = \((x F) dt \) (Angular monantum of particle).

In tral ar lexity: \(v_0^2 = v_0 \rho \). Since the particle is moving in B-field - F=q(BxB) = L= frxq(0xB)dt = frxq(dexB) = q[fr.8)df-fB(rdb)

(.de = (.dr=1 d(r2) = rdr = 1 (27 rdr) Ssnar28 $\Gamma \cdot d\ell = \Gamma \cdot dr^{-1} d(r^{2}) = rdr = 1 \quad (2\pi rdr) \qquad Osmards$ $= L = -\frac{q}{2\pi} \int_{0}^{R} 62\pi rdr = -\frac{q}{q} \int 8da = -\frac{q}{2\pi} \int \frac{1}{2\pi} \int \frac{$ that the charge leave the region pretty radially. 11. Wangsoness 16-5. B = B2 = TIA = From Section 16-3 (a) Ax = 0, Ay = Bx, Az = const, from (b) $\partial Az = co$, $\partial Ay = 0$ $\partial Ax = 0$, $\partial Az = 0$; $\partial Ay = B\partial x = B^{2}$; $\partial Ax^{2} = 0$ ∂z ∂z (b) $A_{1} = -B_{y}$, $A_{y} = 0$, $A_{z} = const$, = 0, $A_{1} = 0$, $A_{2} = 0$, $A_{3} = 0$, $A_{4} = 0$, $A_{4} = 0$, $A_{5} = 0$, $A_{7} = 0$ =) = -1 B dy + 1 B dx + d const = 0

=) Ax = -1 B, DAy = 1 B, else = 0. Satisfied & 2 (28)

From Gauge transformation of At = (0, Bx, const) AZ = (-By, O, const) = AZ + 7 X12 -) (-By,0,00st) = (0, Bx,c) + (2x12, 8x12, 8x12) = (3x12, Bx - 2x2, 6x - 2x2, 6x2) (+ dx 1 2 x12 = - By => x12= - Bxy+ C' ∂y 3×12 = 0



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