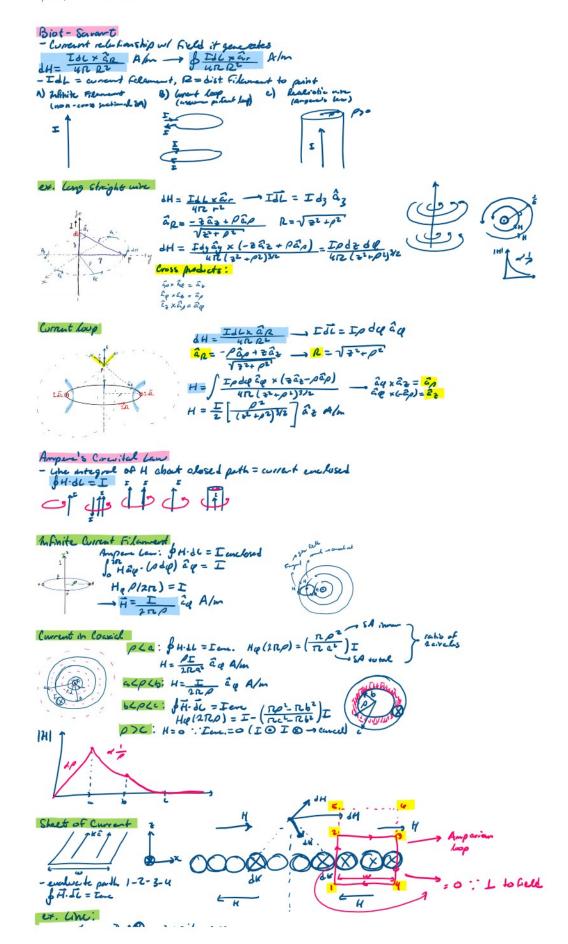
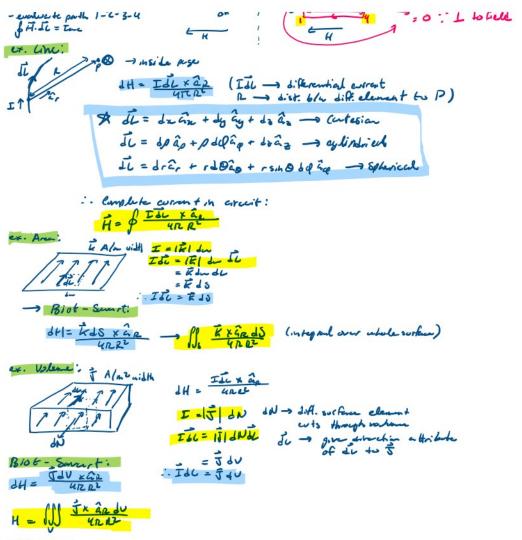
Biot-Savar and Ampere

April 28, 2020 11:24 AM

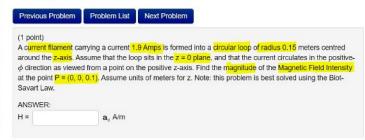


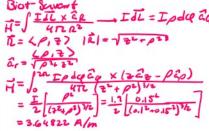


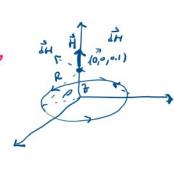


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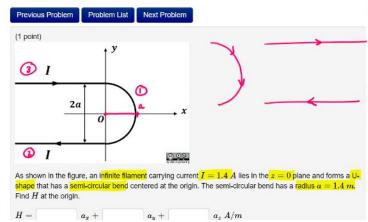
Assignment 7: Problem 2

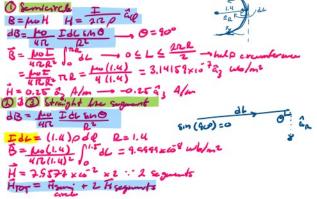






Assignment 7: Problem 3





| Find H at the $H=$ | $a_x +$ | $a_y + $ | $a_z A/m$ | | |
|----------------------|---------|----------|-----------|---|--|
| | | <u></u> | × | a) $I = \iint_{S} \vec{J} \cdot dS H = \frac{I}{2\pi\rho}$ $I = \int_{0}^{2\pi} \int_{0}^{0.000S} \frac{6500}{\rho} \int d\rho dQ$ $= 10.42035 A$ $H = \frac{10.42035}{2\pi(0.0005)} = 6444.999 A/m$ | |