Review: 
$$\vec{B} = \vec{\nabla} \times \vec{A} \hat{\vec{R}} \hat{$$

$$\vec{A}_{R} = \frac{H_{0}}{4\pi} \int \frac{J(\vec{R}')}{|\vec{R}-\vec{R}'|} du = \frac{H_{0}T}{4\pi} \int \frac{d\vec{l}'}{|\vec{R}-\vec{R}'|} \Leftrightarrow r' L(s)$$

$$\vec{B}(R) = \frac{H_0}{FT} \int \frac{\vec{J}(\vec{R}) \times (\vec{R} - \vec{R}')}{|\vec{R} - \vec{R}'|^{\nu}} d\nu = \frac{H_0 I}{FT} \int \frac{\hat{a}_{\ell}' \times (\vec{R} - \vec{R}')}{|\vec{R} - \vec{R}'|^{\nu}} d\nu'$$

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$$\frac{1}{4} \int_{0}^{1} \frac{1}{4} \int_{0}^{1} \frac{1}{4} \frac{1}{4}$$

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م الد مل سردالته ماليم له العادل سب م جاي له ي خواهم A راد إل صمال ليم لو حكر مال د ي وال ارْتَعَيْب السِّفاده كرد (رئيس دوقطي کا) دارې:  $\vec{A}(\vec{R}) = \frac{H_0 I}{F \pi} \int_C \frac{\hat{a}' l}{|\vec{R} - \vec{R}'|} dl'$   $\vec{P}' s : \vec{F}(x - x') y - y') = f(x, y) - \frac{\partial f}{\partial x} x' - \frac{\partial f}{\partial y} y' - \frac{\partial f}{\partial z} z'$ => \frac{1}{|\vec{R}-\vec{R}'|} = \frac{1}{|\vec{R}|} - \nabla(\frac{1}{|\vec{R}|}).\vec{R}'  $=>\vec{A}(\vec{R})=\frac{H_0L}{ETI}\left(\oint_C \frac{\hat{a}'\ell}{k'l}d\ell'-\oint_C \nabla(\frac{1}{k'l}\cdot\vec{R}')\hat{a}'d\ell'\right)$  $\frac{1}{2} = \int_{C} f(\vec{R}') d\vec{R}' = -\int_{S} \nabla' f(x \hat{a}'_{n}) ds' = \int_{C} f(\vec{R}') d\vec{R}' = -\int_{S} \nabla' f(x \hat{a}'_{n}) ds' = \int_{C} f(\vec{R}') d\vec{R}' = -\int_{S} \nabla' f(x \hat{a}'_{n}) ds' = \int_{C} f(\vec{R}') d\vec{R}' = -\int_{S} \nabla' f(x \hat{a}'_{n}) ds' = \int_{C} f(\vec{R}') d\vec{R}' = -\int_{S} \nabla' f(x \hat{a}'_{n}) ds' = \int_{C} f(\vec{R}') d\vec{R}' = -\int_{S} \nabla' f(x \hat{a}'_{n}) ds' = \int_{C} f(\vec{R}') ds' = -\int_{S} \nabla' f(x \hat{a}'_{n}) ds' = \int_{C} f(\vec{R}') ds' = -\int_{S} \int_{C} f(\vec{R}') ds' = -\int_{C} \int_{C} f(\vec{R}') ds' = -\int_{C} \int_{C} f(\vec{R}') ds' = -\int_{C}$ =>  $\overrightarrow{A}(\overrightarrow{R}) = \frac{\cancel{H} \cdot \overrightarrow{I}}{\cancel{K} \pi} \nabla \left(\frac{1}{|R|}\right) \times \int_{S} \widehat{a}_{n} dS$ A(R) = M.15 V(1/R) Xâm : 21/20/16  $= \underbrace{A(\vec{R}') = \frac{\mu_{\bullet}}{\kappa \pi} \nabla \left(\frac{1}{|\vec{R}|}\right) \times \vec{m}}_{m=1} \underbrace{M = 1 \times \hat{a}_{n}'}_{m=1}$ Jas m=moz

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