

$$(4) \int d\vec{v} \cdot g\vec{v} \cdot B^{2} = \int r dr dz d\theta \cdot g\vec{v} \cdot \frac{\vec{k} \cdot \vec{z}^{2}}{4\pi^{2} t^{2}} = \frac{\vec{J}^{2}}{2\pi^{2}} \int_{a}^{b} \vec{v} dr dz d\theta$$

$$= \frac{\vec{J}^{2}}{5\pi^{2}} \int_{a}^{b} \log \left( \frac{b}{a} \right) \cdot 2\pi \cdot \left[ \beta dz \right)$$

$$\therefore \frac{\vec{J}^{2}}{5\pi^{2}} \int_{a}^{b} \log \left( \frac{b}{a} \right) \cdot 2\pi \cdot \left[ \beta dz \right)$$

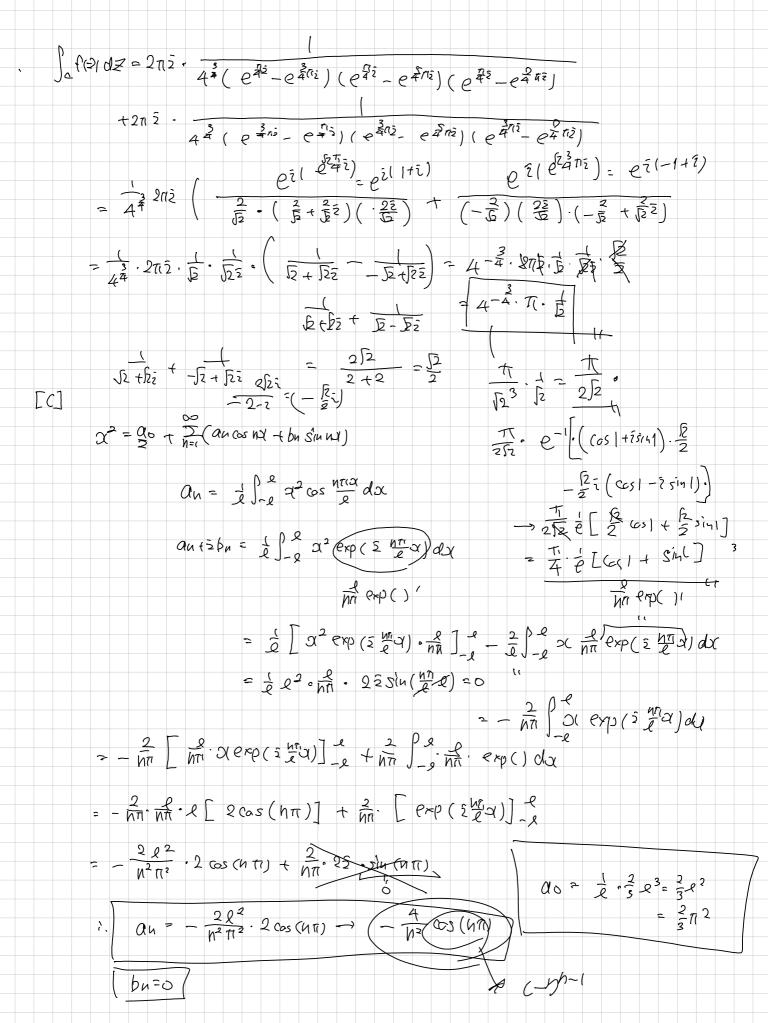
$$\therefore \frac{\vec{J}^{2}}{5\pi^{2}} \int_{a}^{b} \log \left( \frac{b}{a} \right) \cdot 2\pi \cdot \left[ \beta dz \right]$$

$$(5) \vec{E} = \frac{1}{2} L \vec{I}^{2} \cdot ... \quad L = \frac{2}{2\pi} \times \frac{\vec{J}^{2}}{7\pi} \int_{a}^{b} \left( \frac{b}{a} \right) \cdot \frac{\vec{J}^{2}}{4\pi} \int_{a}^{b} \left( \frac{b}{a} \right) \cdot \frac{\vec{J}^{2}}{4\pi}$$

[B] 
$$[A]$$

(I)  $A(A) = -(1) + (1 - (1)) = -2$  (\$\(\frac{1}{2}\)\)\\

(2)  $A^{-1} = -1$  \[
\frac{1}{1} \cdot \frac{1} \cdot \frac{1}{1} \cdot \frac{1} \cdot \frac{1}{1} \cdot



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