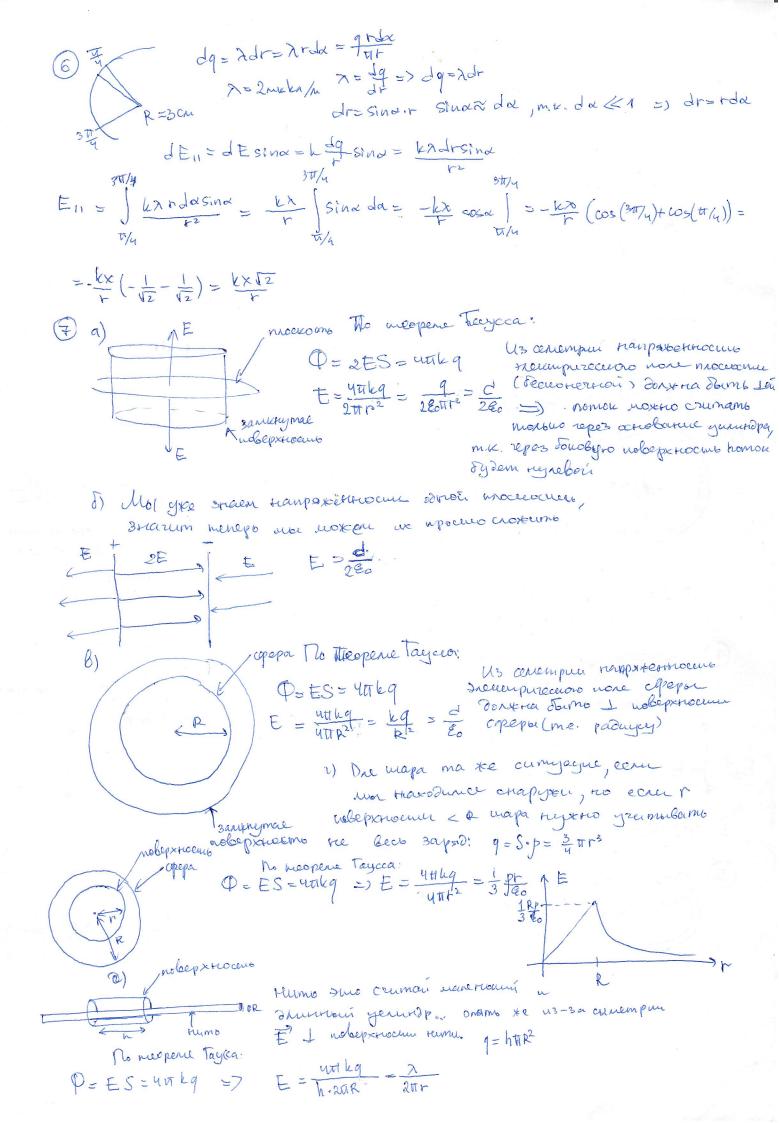
$$\begin{array}{c} \lambda = \lambda \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ dr \rightarrow tq \\ \end{array}$$

$$\begin{array}{c} \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta = \frac{1}{2} \text{ ALL/A} \quad \left(= t_{\text{CM}} \right) \\ \Delta$$



(8)
$$\vec{E} = \alpha \vec{r}$$
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 $3\alpha p \vec{s} dn = 0$
 $3\alpha p$

(3)
$$E(r) = \frac{k\Omega r}{(R^2 + r^2)^{3/2}} \quad dF = E(r) j dq = \lambda dr$$

$$F = \int_{0}^{\infty} E(r) \lambda dr = \int_{0}^{\infty} \frac{k\Omega r}{(R^2 + r^2)^{3/2}} dr = k\Omega \int_{0}^{\infty} \frac{r}{(R^2 + r^2)^{3/2}} dr = \frac{1}{2} k\Omega \int_{0}^{\infty} \frac{d(R^2 + r^2)^{3/2}}{(R^2 + r^2)^{3/2}} dr = \frac{1}{2} k\Omega \left(-(0 - \frac{1}{R^2})) = \frac{1}{2} k\lambda \Omega dr$$