

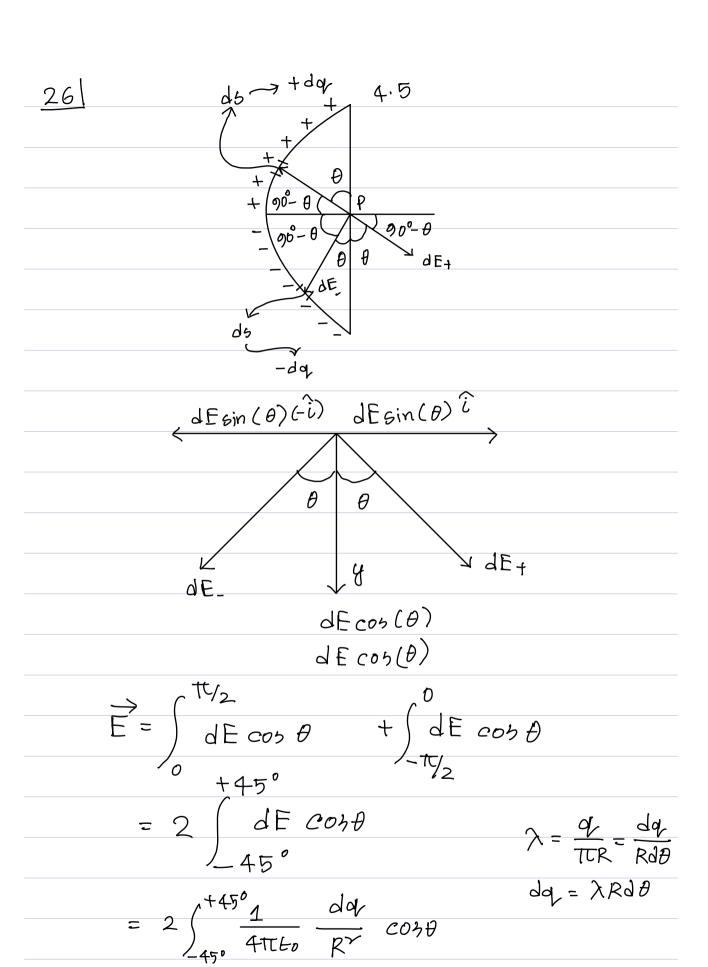
$$E = \frac{9.7}{4\pi \epsilon_o (7^{2} + R^{2})^{3/2}}$$

$$\frac{1}{\text{Ening1}} = \frac{9R}{4\pi t_0 \left(R^7 + R^7\right)^{3/2}}$$

$$\overrightarrow{E}_{\text{ring2}} = \frac{9.2R}{4\pi t_o((2R)^{\gamma}+R^{\gamma})^{3/2}} (-\hat{i})$$

$$\frac{q_{1}}{(2R^{2})^{3/2}} = \frac{2q_{2}}{(5R^{2})^{3/2}}$$

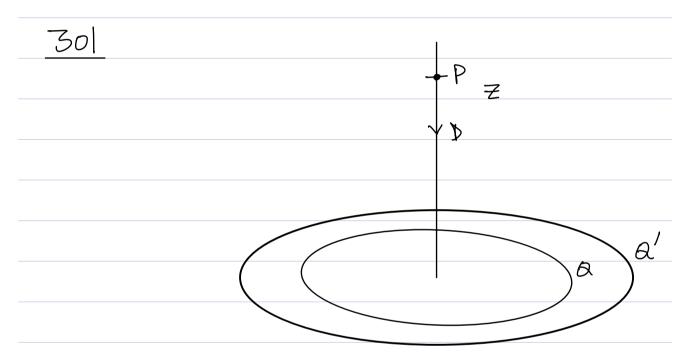
$$\frac{q_{1}}{(5R^{2})^{3/2}} = \frac{2 \cdot 2^{3/2}}{5^{3/2}}$$



$$= 2 \left(\frac{1}{4\pi\epsilon_0} \frac{\Lambda R d\theta}{R^{\gamma}} \right) \cos \theta$$

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$$= \frac{2\Lambda}{4\pi\epsilon_0} \left(\frac{2000 + 4\theta}{4\pi\epsilon_0} \right) \cos \theta$$



$$E_1 = \frac{4.2R}{4\pi t_0 ((2R)^7 + R^7)^{3/2}}$$

 $E_2 = 7$

31.
$$\frac{1}{1+a-x}$$

$$\frac{1}{4\pi\epsilon_{0}} \frac{1}{(1+a-x)^{\gamma}} \frac{1}{(1+a-x)^{$$

$$= \frac{\lambda}{4\pi t + o u} \begin{vmatrix} L & (-i) \\ o & L \end{vmatrix}$$

$$= \frac{\lambda}{4\pi t + o (L + a - \pi)} \begin{vmatrix} L & (-i) \\ o & d \end{vmatrix}$$

$$=\frac{1}{4\pi\epsilon_0}\left[\frac{1}{\alpha}-\frac{1}{L+\alpha}\right]^{\frac{1}{(-i)}}$$