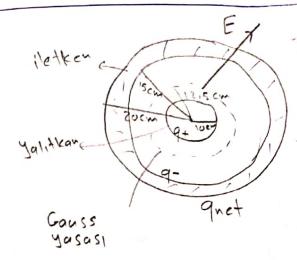
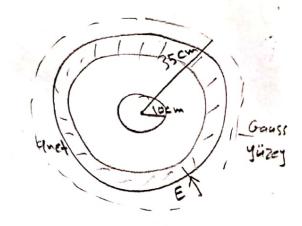
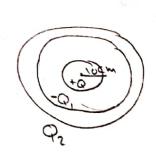
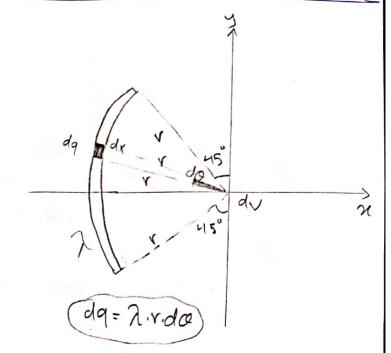
2] a) 
$$\Phi = \frac{q_{i}c}{\xi_{0}} = 3\delta\vec{\epsilon}\cdot\vec{d\lambda} = \frac{q_{i}c}{\xi_{0}}$$



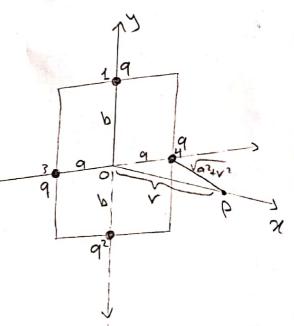




3] a) 
$$\int dv = \int k \cdot \frac{dq}{v}$$
  
=>  $V = \int k \cdot \frac{2 \cdot v \cdot dq}{v}$   
=>  $V = k \cdot \lambda \int dq = k \cdot \lambda \left[ q \right]^{1/2}$ 



$$\int_{A} \int_{A} \int_{A$$



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$$V_1 + V_2 = V_3 = 3 \frac{q_1}{c_1} + \frac{q_2}{c_2} = \frac{q_1}{c_3} = 3 \frac{10q_1 + 15q_2}{150} = \frac{q_2}{6} = 3 \frac{q_1 = q_2}{150}$$