at the point of in the center of that conc.

$$\frac{da}{dE} = \frac{1}{R^2}$$

$$dE = \frac{kdQ}{R^2}$$

$$dE_x = dE \cos \theta$$

$$dE_y = \frac{kdQ}{R^2} \cos \theta = \frac{k \lambda d\theta}{R} \cos \theta$$

$$\lambda = \text{Linear}$$
 charge density = $\frac{Q}{\frac{1}{3}2\pi R} = \frac{3Q}{2\pi R}$

$$d9 = \lambda R d\theta$$

$$E = 2 \int dE_{x} = 2 \int K \lambda \dot{c}os\theta d\theta \qquad [k, \lambda, R = \frac{1}{2}] \int_{0}^{\infty} dE_{x} = 2 \int R \dot{c}os\theta d\theta \qquad [k, \lambda, R = \frac{1}{2}] \int_{0}^{\infty} dE_{x} = 2 \int R \dot{c}os\theta d\theta \qquad [k, \lambda, R = \frac{1}{2}] \int_{0}^{\infty} dE_{x} = 2 \int R \dot{c}os\theta d\theta \qquad [k, \lambda, R = \frac{1}{2}] \int_{0}^{\infty} dE_{x} = 2 \int R \dot{c}os\theta d\theta \qquad [k, \lambda, R = \frac{1}{2}] \int_{0}^{\infty} dE_{x} = 2 \int R \dot{c}os\theta d\theta \qquad [k, \lambda, R = \frac{1}{2}] \int_{0}^{\infty} dE_{x} = 2 \int R \dot{c}os\theta d\theta \qquad [k, \lambda, R = \frac{1}{2}] \int_{0}^{\infty} dE_{x} = 2 \int R \dot{c}os\theta d\theta \qquad [k, \lambda, R = \frac{1}{2}] \int_{0}^{\infty} dE_{x} = 2 \int R \dot{c}os\theta d\theta \qquad [k, \lambda, R = \frac{1}{2}] \int_{0}^{\infty} dE_{x} = 2 \int R \dot{c}os\theta d\theta \qquad [k, \lambda, R = \frac{1}{2}] \int_{0}^{\infty} dE_{x} = 2 \int R \dot{c}os\theta d\theta \qquad [k, \lambda, R = \frac{1}{2}] \int_{0}^{\infty} dE_{x} = 2 \int R \dot{c}os\theta d\theta \qquad [k, \lambda, R = \frac{1}{2}] \int_{0}^{\infty} dE_{x} = 2 \int R \dot{c}os\theta d\theta \qquad [k, \lambda, R = \frac{1}{2}] \int_{0}^{\infty} dE_{x} = 2 \int R \dot{c}os\theta d\theta \qquad [k, \lambda, R = \frac{1}{2}] \int_{0}^{\infty} dE_{x} = 2 \int R \dot{c}os\theta d\theta \qquad [k, \lambda, R = \frac{1}{2}] \int_{0}^{\infty} dE_{x} = 2 \int R \dot{c}os\theta d\theta \qquad [k, \lambda, R = \frac{1}{2}] \int_{0}^{\infty} dE_{x} = 2 \int R \dot{c}os\theta d\theta \qquad [k, \lambda, R = \frac{1}{2}] \int_{0}^{\infty} dE_{x} = 2 \int R \dot{c}os\theta d\theta \qquad [k, \lambda, R = \frac{1}{2}] \int_{0}^{\infty} dE_{x} = 2 \int R \dot{c}os\theta d\theta \qquad [k, \lambda, R = \frac{1}{2}] \int_{0}^{\infty} dE_{x} = 2 \int R \dot{c}os\theta d\theta \qquad [k, \lambda, R = \frac{1}{2}] \int_{0}^{\infty} dE_{x} = 2 \int R \dot{c}os\theta d\theta \qquad [k, \lambda, R = \frac{1}{2}] \int_{0}^{\infty} dE_{x} = 2 \int R \dot{c}os\theta d\theta \qquad [k, \lambda, R = \frac{1}{2}] \int_{0}^{\infty} dE_{x} = 2 \int R \dot{c}os\theta d\theta \qquad [k, \lambda, R = \frac{1}{2}] \int_{0}^{\infty} dE_{x} = 2 \int R \dot{c}os\theta d\theta \qquad [k, \lambda, R = \frac{1}{2}] \int_{0}^{\infty} dE_{x} = 2 \int_{0}^{\infty$$

$$E = \frac{2k\lambda}{R} \int_{0}^{60} \cos\theta \, d\theta$$

$$= \frac{2k\lambda}{R} \left[\sin\theta \right]_{0}^{60}$$

$$=\frac{2k\lambda}{R}\cdot\frac{\sqrt{3}}{2}=\frac{1\cdot73k\lambda}{R}$$

$$= \frac{1.73 \times \frac{39}{2\pi R^2}}{2\pi R^2} \left[\lambda = \frac{39}{2\pi R} \right]$$

$$= 0.827 \times \frac{19}{2\pi R^2}$$

