

We require $|E_x| = -|2E_y|$, so $2(y+2) = 5$. Thus $y = 1/2$, and the field becomes:

$$\mathbf{E}_{x=0} = \frac{\rho_l}{2\pi\epsilon_0} \left[\frac{2.5\mathbf{a}_y - 5\mathbf{a}_z}{(2.5)^2 + 25} \right] = \underline{23\mathbf{a}_y - 46\mathbf{a}_z}$$

- 2.18.** a) Find \mathbf{E} in the plane $z = 0$ that is produced by a uniform line charge, ρ_L , extending along the z axis over the range $-L < z < L$ in a cylindrical coordinate system: We find \mathbf{E} through

$$\mathbf{E} = \int_{-L}^L \frac{\rho_L dz (\mathbf{r} - \mathbf{r}')}{4\pi\epsilon_0 |\mathbf{r} - \mathbf{r}'|^3}$$

where the observation point position vector is $\mathbf{r} = \rho\mathbf{a}_\rho$ (anywhere in the x - y plane), and where the position vector that locates any differential charge element on the z axis is $\mathbf{r}' = z\mathbf{a}_z$. So $\mathbf{r} - \mathbf{r}' = \rho\mathbf{a}_\rho - z\mathbf{a}_z$, and $|\mathbf{r} - \mathbf{r}'| = (\rho^2 + z^2)^{1/2}$. These relations are substituted into the integral to yield:

$$\mathbf{E} = \int_{-L}^L \frac{\rho_L dz (\rho\mathbf{a}_\rho - z\mathbf{a}_z)}{4\pi\epsilon_0 (\rho^2 + z^2)^{3/2}} = \frac{\rho_L \rho \mathbf{a}_\rho}{4\pi\epsilon_0} \int_{-L}^L \frac{dz}{(\rho^2 + z^2)^{3/2}} = E_\rho \mathbf{a}_\rho$$

Note that the second term in the left-hand integral (involving $z\mathbf{a}_z$) has effectively vanished because it produces equal and opposite sign contributions when the integral is taken over symmetric limits (odd parity). Evaluating the integral results in

$$E_\rho = \frac{\rho_L \rho}{4\pi\epsilon_0} \frac{z}{\rho^2 \sqrt{\rho^2 + z^2}} \Big|_{-L}^L = \frac{\rho_L}{2\pi\epsilon_0 \rho} \frac{L}{\sqrt{\rho^2 + L^2}} = \frac{\rho_L}{2\pi\epsilon_0 \rho} \frac{1}{\sqrt{1 + (\rho/L)^2}}$$

Note that as $L \rightarrow \infty$, the expression reduces to the expected field of the infinite line charge in free space, $\rho_L/(2\pi\epsilon_0\rho)$.

- b) if the finite line charge is approximated by an infinite line charge ($L \rightarrow \infty$), by what percentage is E_ρ in error if $\rho = 0.5L$? The percent error in this situation will be

$$\% \text{ error} = \left[1 - \frac{1}{\sqrt{1 + (\rho/L)^2}} \right] \times 100$$

For $\rho = 0.5L$, this becomes $\% \text{ error} = \underline{10.6\%}$

- c) repeat b) with $\rho = 0.1L$. For this value, obtain $\% \text{ error} = \underline{0.496\%}$.

- 2.19.** A uniform line charge of $2 \mu\text{C}/\text{m}$ is located on the z axis. Find \mathbf{E} in rectangular coordinates at $P(1, 2, 3)$ if the charge extends from

- a) $-\infty < z < \infty$: With the infinite line, we know that the field will have only a radial component in cylindrical coordinates (or x and y components in cartesian). The field from an infinite line on the z axis is generally $\mathbf{E} = [\rho_l/(2\pi\epsilon_0\rho)]\mathbf{a}_\rho$. Therefore, at point P :

$$\mathbf{E}_P = \frac{\rho_l}{2\pi\epsilon_0} \frac{\mathbf{R}_{z,P}}{|\mathbf{R}_{z,P}|^2} = \frac{(2 \times 10^{-6})}{2\pi\epsilon_0} \frac{\mathbf{a}_x + 2\mathbf{a}_y}{5} = \underline{7.2\mathbf{a}_x + 14.4\mathbf{a}_y \text{ kV/m}}$$

where $\mathbf{R}_{z,P}$ is the vector that extends from the line charge to point P , and is perpendicular to the z axis; i.e., $\mathbf{R}_{z,P} = (1, 2, 3) - (0, 0, 3) = (1, 2, 0)$.

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