

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,  $\rho_L$ , 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  $E_\rho$  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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