(C). Assuming this universe to be a perfect sphere we have limits as $0 \leq r \leq \infty, 0 \leq \phi \leq 2\pi, 0 \leq \theta \leq \pi$
and the differential volume for spherical co-ordinates system is given by $dv = (r\sin\theta d\phi)(rd\theta)(dr) = r^2\sin\theta d\theta d\phi dr$
$\Rightarrow Q = \int_{vol}\rho_v dv = \int_{vol}(e^{-2r}/r^2)r^2\sin\theta d\theta d\phi dr = \int_0^{2\pi} d\phi \int_0^{\pi}\sin\theta d\theta \int_0^{\infty} e^{-2r}dr = \mid \phi \mid_0^{2\pi} \times \mid (-cos\theta) \mid_0^{\pi} \times \mid e^{-2r}/-2 \mid_0^{\infty}$
$\Rightarrow Q = 2\pi \times 2 \times 1/2 = 2\pi C = 6.28C$

D2.5 (a). For infinite uniform line charge $\vec{E}$ is given by $\vec{E} = \rho_L\hat{a}_R/2\pi\epsilon_o \mid \vec{R} \mid = \rho_L\vec{R}/2\pi\epsilon_o \mid \vec{R} \mid^2$ where $\vec{R}$ is the perpendicular distance vector between the line charge and the point under consideration, in this case the point is P_A (0,0,4), since we have two infinite line charges,one along x-axis and one along y-axis so the value of $\vec{E}$ at P_A is the sum of $\vec{E}_1$ ($\vec{E}$ due to infinite line charge along x-axis) and $\vec{E}_2$ ($\vec{E}$ due to infinite line charge along y-axis)
so $\vec{E}_1 = \rho_L\vec{R}_{px}/2\pi\epsilon_o \mid \vec{R}_{px} \mid^2$, $\vec{R}_{px}$ =(Perpendicular distance vector between point P_A and the line charge along x-axis)
$\Rightarrow \vec{R}_{px} = 4\hat{a}_z$, now $\vec{E}_1 = 5 \times 10^{-9} \times 4\hat{a}_z/(2\pi \times 8.85 \times 10^{-12} \times 16) = 22.479\hat{a}_z V/m$
using similar arguments we can find
$\vec{R}_{py} = 4\hat{a}_z$ so $\vec{E}_2 = \rho_L\vec{R}_{py}/2\pi\epsilon_o \mid \vec{R}_{py} \mid^2 = 5 \times 10^{-9} \times 4\hat{a}_z/(2\pi \times 8.85 \times 10^{-12} \times 16) = 22.479\hat{a}_z V/m$
$\Rightarrow \vec{E} = \vec{E}_1 + \vec{E}_2 = 22.479\hat{a}_z V/m + 22.479\hat{a}_z V/m = 45\hat{a}_z V/m$

(b). Using the same arguments as in part(a) we have $\vec{R}_{px} = 3\hat{a}_y + 4\hat{a}_z$, since the point is $P_B(0,3,4)$
and $\vec{R}_{py} = +4\hat{a}_z$
$\vec{E}_1 = \rho_L\vec{R}_{px}/2\pi\epsilon_o \mid \vec{R}_{px} \mid^2 = 5 \times 10^{-9} \times (3\hat{a}_y + 4\hat{a}_z)/(2\pi \times 8.85 \times 10^{-12} \times 25) = 10.8\hat{a}_y + 14.38\hat{a}_z$
$\vec{E}_2 = \rho_L\vec{R}_{py}/2\pi\epsilon_o \mid \vec{R}_{py} \mid^2 = 5 \times 10^{-9} \times 4\hat{a}_z/(2\pi \times 8.85 \times 10^{-12} \times 16) = 22.479\hat{a}_z$
$\Rightarrow \vec{E} = \vec{E}_1 + \vec{E}_2 = 10.8\hat{a}_y + 14.38\hat{a}_z + 22.479\hat{a}_z = 10.8\hat{a}_y + 36.9\hat{a}_z$

D2.6 (a). $P_A = (2, 5, -5)$, since the point P_A is located below all the given surfaces or sheet of charges so the unit normal vector $\hat{a}_N$ to these surfaces ,which also shows the direction of $\vec{E}$ will be in the -ive $\hat{a}_z$ direction i.e $-\hat{a}_z$
$\vec{E}$ at point P_A will be the sum of $\vec{E}$'s caused by each sheet of charge
$\Rightarrow \vec{E} = \vec{E}_{z=-4} + \vec{E}_{z=1} + \vec{E}_{z=4}$, now we have $\vec{E} = (\rho_s/2 \times \epsilon_o)\hat{a}_N$
[illegible]

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