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D2.1 (a).  $Q_A = -20\mu\text{C}$  located at  $A(-6,4,7)$ ,  $Q_B = 50\mu\text{C}$  located at  $B(5,8,-2)$  Find  $R_{AB}$   $R_{AB} = (5 - (-6))\hat{a}$

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$\mathbf{A} = (8 - 4)\hat{a}_x + (-2 - 7)\hat{a}_y + 11\hat{a}_z$   
 $\mathbf{B} = 4\hat{a}_x - 9\hat{a}_z$  (b).  $|\mathbf{R}_{AB}| = \sqrt{(11)^2 + 4^2 + (-9)^2} = 14.76\text{m}$  (c).  $F_{AB} = \frac{Q_A Q_B R_{AB}}{4\pi \epsilon_0 |\mathbf{R}_{AB}|^3}$

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$$D1.1 (a). \mathbf{R} \times \mathbf{M} \times \mathbf{N} = \mathbf{N} (3, -3, 0) - \mathbf{M} (-1, 2, 1) = (4, -5, -1) = 4\hat{x} - 5\hat{y} - \hat{z}$$

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(b).  $\mathbf{R} = \mathbf{M} - \mathbf{P} = \mathbf{P}(-2, -3, -4) - \mathbf{M}(-1, 2, 1) = (-1, -5, \dots)$

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EE08.SOLUTIONS DRILL PROBLEMS 3

D3.1 (a) Evaluate the triple volume  
integral to find the total volume  
enclosed by the portion of sphere /

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surface and then just multiply it with the given charge to find the total charge within it:

$$0.26 \times 10^{-6} \times 1.8 \times 10^8 = 46.8 \text{ } \mu\text{C}$$

(b) This surface encloses the whole charge  $q$ , so answer is  $60 \text{ } \mu\text{C}$  (c) Only the upper half of the flux lines pass through the plane at  $z = 26 \text{ cm}$ , so  $D = 0.5 \times \dots$

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1.1. Given the vectors  $M = -10a_x + 4a_y - 8a_z$  and  $N = 8a_x + 7a_y - 2a_z$ , find: a) a unit vector in the direction of  $-M + 2N$ .  $-M + 2N = 10a_x - 4a_y + 8a_z + 16a_x + 14a_y - 4a_z = (26, 10, 4)$

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D5.1 (a).  $J = 10\rho^2 z \hat{\rho} - 4\rho \cos 2\phi \hat{\phi}$

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$\text{mA/m}^2$ ,  $P(\rho = 3, \phi = 30^\circ, z = 2) \Rightarrow (J)$   
 $(\rho=3, \phi=30^\circ, z=2) = 10 \times 3^2 \times 2 \hat{\rho} - 4 \times 3 \times (\cos 30^\circ)^2 \hat{\phi} = (180 \hat{\rho} - 9 \hat{\phi}) \text{ mA/m}^2$  (b). we have  $I = J \cdot dS$ ,  $dS = \rho d\phi dz \hat{\rho} \Rightarrow I = (10\rho^2 z \hat{\rho} - 4\rho \cos 2\phi \hat{\phi}) \cdot$

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$$(a). \mathbf{R} - \mathbf{M} + \mathbf{N} = \mathbf{N} (3, -3, 0) - \mathbf{M} (-1, 2, 1) \\ = (4, -5, -1) = 4\hat{x} - 5\hat{y} - \hat{z}$$

$$(b). \mathbf{R} - \mathbf{M} + \mathbf{P} = \mathbf{P} (-2, -3, -4) - \mathbf{M} (-1, 2, 1) = \\ (-1, -5, -5) \dots$$

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 $P(2, -2, 3)$   $\hat{a}_L = (-6/7)\hat{a}_x + (3/7)\hat{a}_y + (2/7)\hat{a}_z$ , Find  $dW/dL = \hat{a}_L \cdot dL$   
 $= 2 \times 10^{-6} ((-6/7)\hat{a}_x + (3/7)\hat{a}_y + (2/7)\hat{a}_z) = ((-12/7)\hat{a}_x + (6/7)\hat{a}_y +$

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