Attendence > 5 (quiz + assignment+ mid + final)

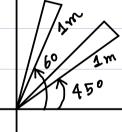
quiz > 10 (best n-1) assignment $\rightarrow 20$ (best n-1) Lab $\rightarrow 10$

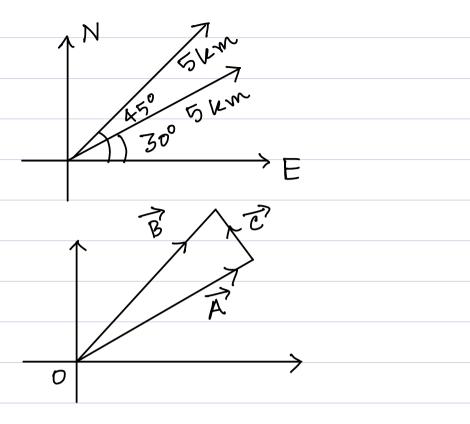
 $Mid \rightarrow 20$

Final → 35

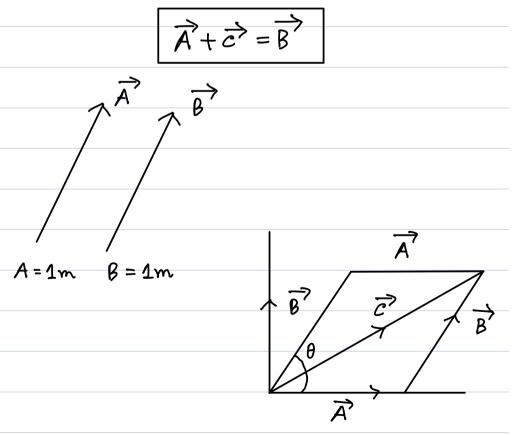
Problem Solve-Fundamental of Physics Resnick Haliday

Vector, Scaler

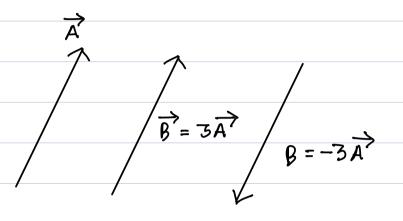




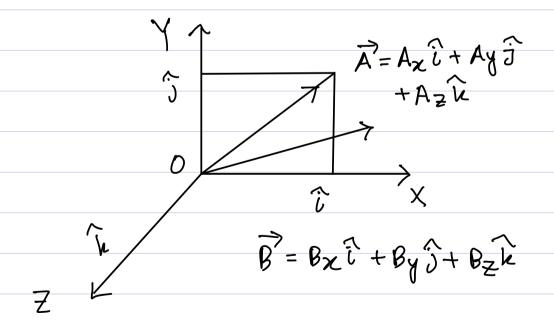
$$\overrightarrow{A} + \overrightarrow{c} = \overrightarrow{B}$$



$$C = \sqrt{A' + B' + 2AB \cos \theta}$$



$$\overrightarrow{A} \cdot \overrightarrow{\beta} = k$$



$$\vec{A} \cdot \vec{B} = A_X B_X (\hat{i} \cdot \hat{i}) +$$

$$A_Y B_Y (\hat{j} \cdot \hat{j}) +$$

$$A_Z B_Z (\hat{k} \cdot \hat{k})$$

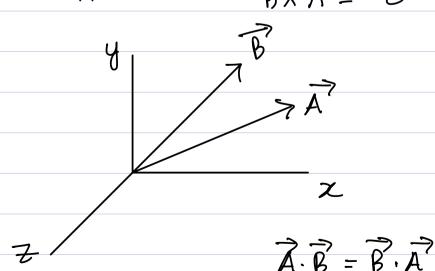
$$\overrightarrow{\hat{c}} \cdot \overrightarrow{\hat{c}} = AB CO3 \theta$$

$$\overrightarrow{\hat{c}} \cdot \overrightarrow{\hat{c}} = |\overrightarrow{\hat{c}}| \cdot |\overrightarrow{\hat{c}}| cos 0^{\circ}$$

$$= 1$$

$$\overrightarrow{A} \times \overrightarrow{B} = \overrightarrow{C}$$

 $\overrightarrow{B} \times \overrightarrow{A} = -\overrightarrow{C}$



$$F_{B} = q(V \times B)$$

$$F_{A2}$$

$$A_{A1}$$

$$A_{A2}$$

$$A_{A3}$$

$$\overrightarrow{F_{12}} = \frac{1}{4\pi\epsilon_0} \times \frac{\alpha_1 \alpha_2}{(\alpha_{12})^{\gamma}} \xrightarrow{\gamma_{12}}$$

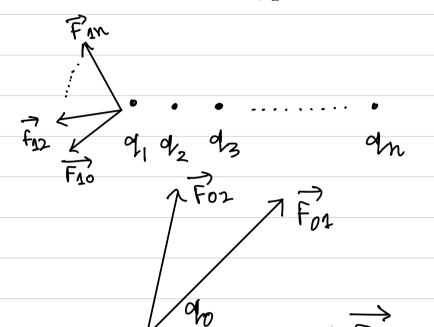
$$\overrightarrow{F}_{21} = \frac{1}{4\pi\epsilon_0} \times \frac{q_1 q_2}{(\gamma_{21})^{\gamma}} \xrightarrow{r_2} \frac{1}{(\gamma_{21})^{\gamma}}$$

$$\overrightarrow{F_{12}} = -\overrightarrow{F_{21}}$$

$$\Rightarrow \frac{1}{\gamma_{12}} \quad \gamma_{12}^{2} = -\frac{1}{\gamma_{21}} \quad \gamma_{21}^{2}$$

$$\Rightarrow \gamma_{12}^{2} = -\gamma_{21}^{2}$$

=>
$$\gamma_{12}^{\prime} = -\gamma_{21}^{\prime}$$



$$= \sum_{i=1}^{n} \overrightarrow{Foi}$$

$$\overrightarrow{F_n} = \overrightarrow{F_{no}} + \cdots + \overrightarrow{F_{n}} (n-1)$$

$$\overrightarrow{F_{ext}} = \overrightarrow{ma}$$

$$= m \frac{d\overrightarrow{v}}{dt}$$

$$0 = m \frac{d\vec{v}}{dt}$$

$$0 = \frac{d\nabla}{dt}$$

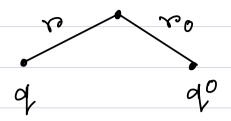
$$g = \frac{G_1M}{R^2} \rightarrow distance$$

$$E = \frac{kq}{rr}$$

$$E = \frac{k.5}{4}$$

$$= \frac{5k}{4}$$

$$= \frac{5k}{4}$$

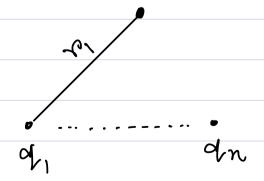


$$\overrightarrow{F} = \overrightarrow{q_0} \overrightarrow{E}$$

$$\overrightarrow{F} = \overrightarrow{q_0} \overrightarrow{E}$$

$$\overrightarrow{F} = \overrightarrow{q_0} \overrightarrow{Q_0}$$

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$$6m \xrightarrow{C}$$

$$E_{1} \longrightarrow$$

$$Q_{1} = 2c \xrightarrow{Q_{test}} Q_{2} = -5c$$

$$E = \frac{1}{4\pi\epsilon_0} \frac{|2|}{3^{\gamma}} \frac{1}{6}$$

$$E_2 = \frac{1}{4\pi\epsilon_0} \frac{1-5|}{3^{\gamma}} \frac{1}{6}$$

$$E = \frac{1}{4\pi\epsilon_0} \left(\frac{7}{9} \right) \hat{b}$$

$$\frac{10}{E_1}$$

$$\frac{10}{Q_1 = 5c}$$

$$\frac{8}{Q_2 = 5c}$$

$$E_1 = \frac{1}{4\pi\epsilon_0} \times \frac{151}{2}$$

$$=\frac{1}{4\pi\epsilon_0}\times\frac{5}{64}$$

$$E_2 = \frac{1}{4\pi\epsilon_0} \times \frac{|5|}{2^{\vee}} ?$$

$$E = E_1 - E_2 = \frac{1}{4\pi\epsilon_0} \times \frac{-75}{64}$$

