(Esta 2)
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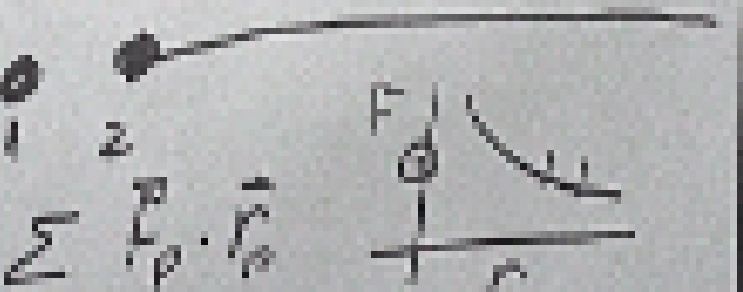
$$\vec{E}_p = \frac{k q_1}{|\vec{r}_p - \vec{r}_1|^2} \hat{r}_{1p}$$

$$\vec{F}_p = q_p \vec{E}$$



$$W = \sum_{\Delta \vec{r}_i} \vec{F}_p \cdot \vec{r}_0$$

$$W_{1p} = \frac{k q_1 q_0}{|\vec{r}_{1p}|}$$

$E = \frac{F}{q}$ $\quad V = \frac{W}{q}$ / $[V] = \frac{J}{C}$

A ⟵ B $\quad \Delta V = V_B - V_A$

$q = (r, \theta)$

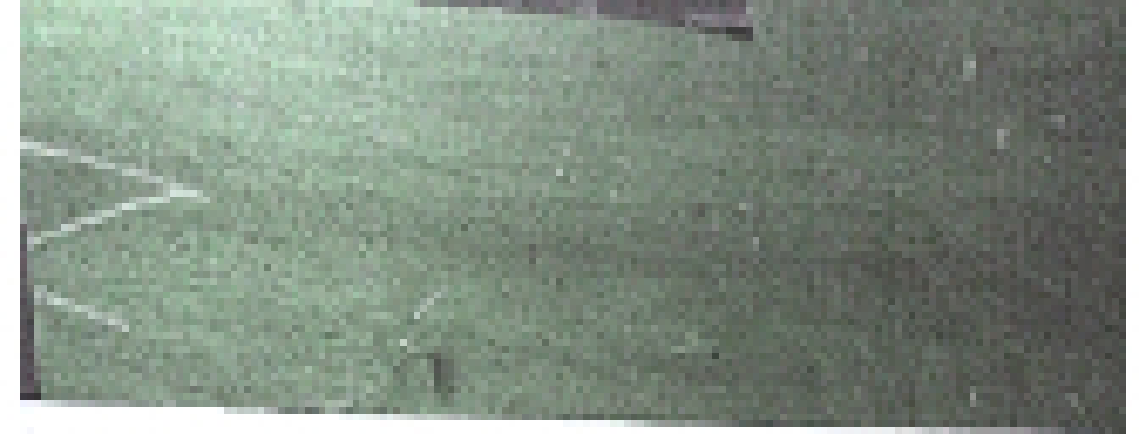
at point P: $V_P = \frac{K q}{|r|}$ $\quad V \longrightarrow \infty$

U $\quad$ V $\quad$ $V_\infty = U$

ΔU $\quad$ ΔV

J $\quad$ J

w/ $\quad$ w/



$W = W_1 + W_2 + W_3 + W_4$

change (W_1)

$W = V_{at2}\ g_2\ (W_2)$

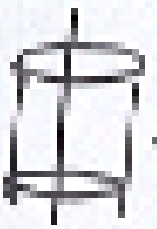
from 1

$W = V_{at3}\ g_3 + V_{at3}\ g_3$

from 1 from 2

$W = V_{at4}\ g_4 + V_{at4}\ g_4 + V_{at4}\ g_4$

from 1 from 2 from 3



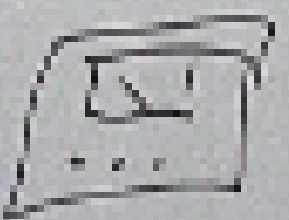
$$\vec{E} = \frac{Q}{4\pi\varepsilon_0 s^2}\,\hat{s}$$

$$W = \int \vec{F}\cdot d\vec{l}$$

$$\frac{ds}{s} \Rightarrow \text{Ln}$$

$V \quad dV$

$$\Delta V_{AB} = V_B - V_A$$



$$\frac{Q}{t}$$

0

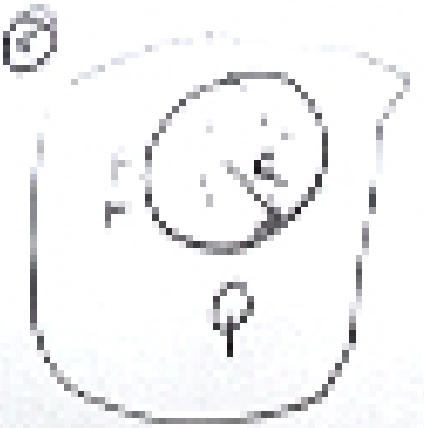
$$\boxed{W = \vec{p}_0 \vec{V}}$$

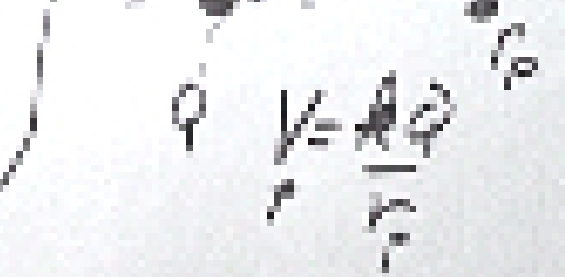
$\vec{v} \subset V \qquad |V| = \frac{|\vec{v}|}{|\epsilon|}$

$$\varepsilon = -\frac{\Delta V}{dr} \qquad [\varepsilon] = \frac{V}{m}$$

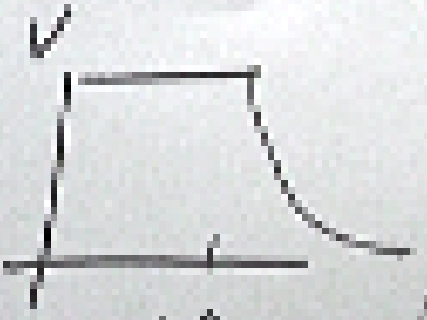
$$V = [\varepsilon]\, m$$

$$V = \frac{\Delta V}{\varepsilon}\, m$$





$$V = \frac{kq}{r}$$



$$V_{max} = \frac{kq}{a}$$

Equipotential = Conductor

$$C = \frac{Q}{V}$$

$$C[F] = \frac{C}{V}$$

$$Q = CV \qquad \frac{1}{2}CV^2 = U_E$$