

$$\sin \alpha = \frac{AB}{AC}$$

$$\cos \alpha = \frac{BC}{AC}$$

$$\checkmark \quad \frac{\sqrt{13}}{13} F$$

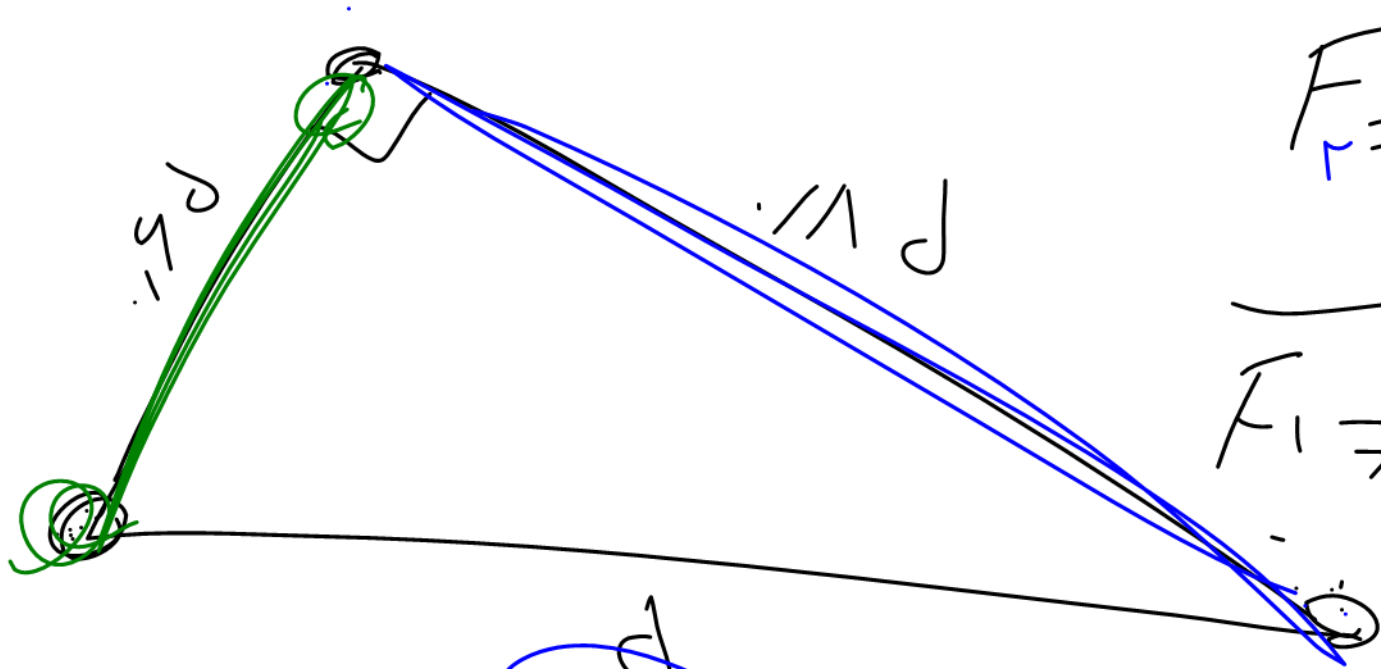
$$\checkmark \quad \frac{2}{13} F$$

$$\uparrow \quad \frac{16}{9} F$$

تغییر نمی کند!

$\pi$	$\lambda$
$\frac{0.766\pi}{\pi}$	$\lambda$

$\lambda = \pi$



$$F = \frac{k q q}{(1/11 d)^2}$$

$$F_1 = \frac{k q q}{(1/5)^2} = \frac{25}{121} F$$

برابر

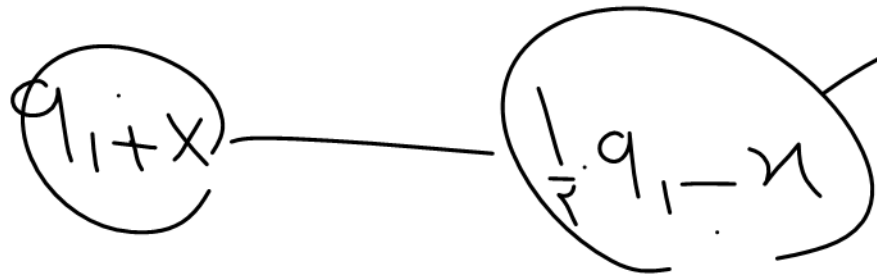
$$\frac{25}{121} F - F = -\frac{96}{121} F$$

K

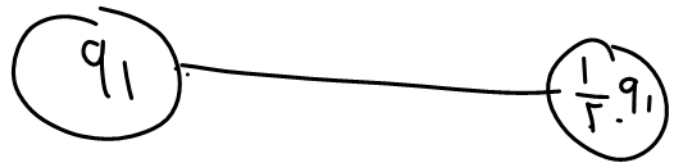


R

$\overset{\text{max } x}{\leftarrow} \frac{1}{R^r} = \frac{K (q_1 + x) x \left( \frac{1}{r} q_1 - x \right)}{R^r}$



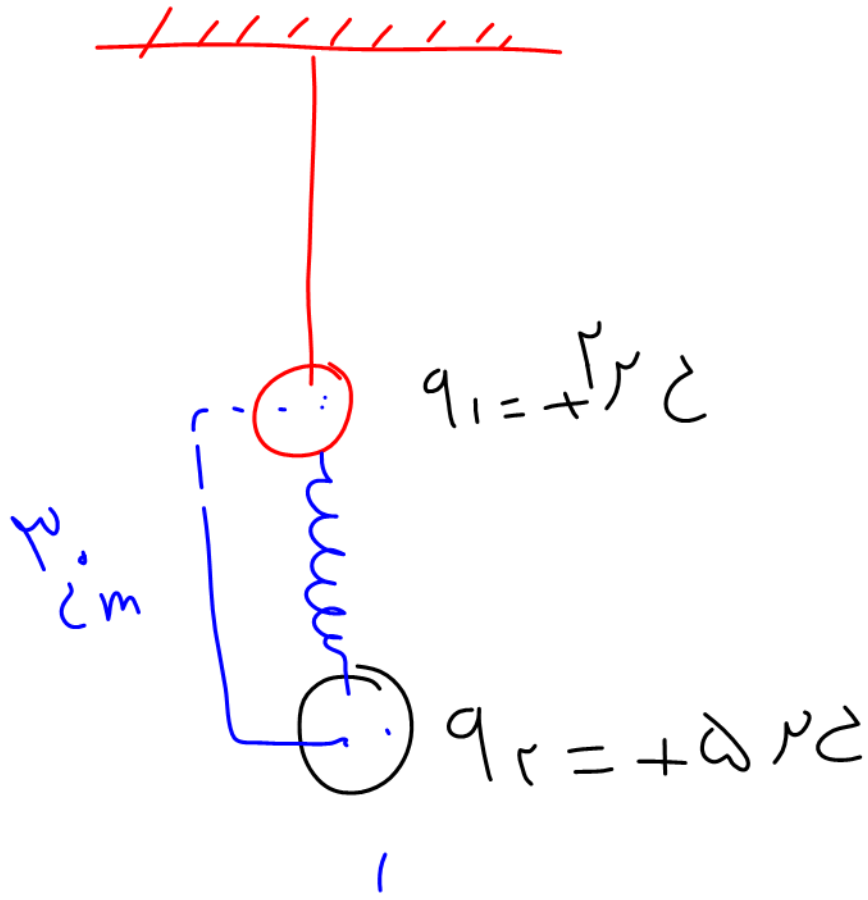
$q_1 + x = \frac{1}{r} q_1 - x$



$x = \frac{1}{r} q_1 \rightarrow r q_1$

$$X + y = r$$

$$\begin{array}{ccc} \text{min } y & \rightarrow & \text{max } X \\ \leftarrow & & \downarrow \\ & & r \end{array}$$



عقد  
تبرهنه

$$M = mg + \frac{q_1 q_2}{R^2}$$

$$M = mg + 1$$

$mg = 1$

$m = 1/r$

U; g = mg

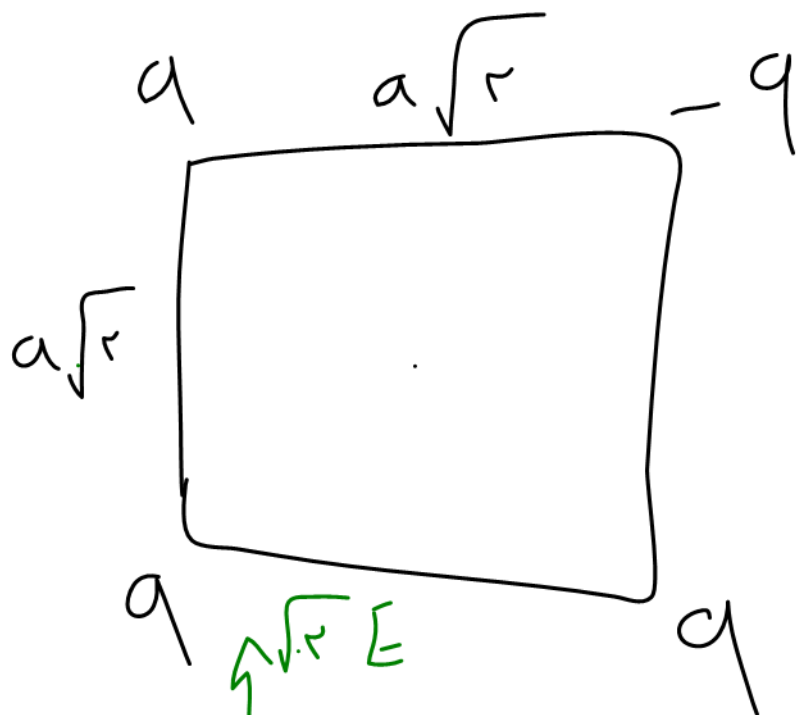
$$m(g \oplus -g) = 1/r$$



$$w_{زن} = mg = v_0 \times t_0 = v_{00} N$$

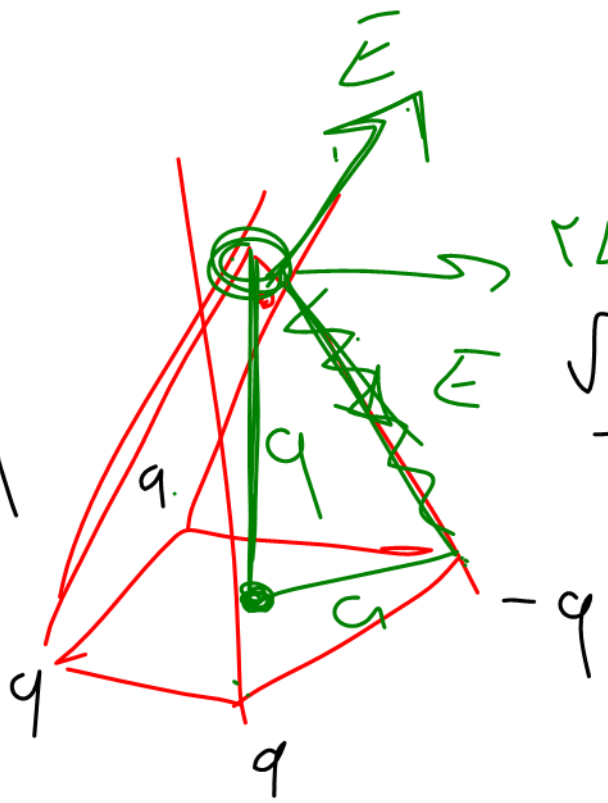


$$w_{زن} = m(g + a)$$



$$\frac{\sqrt{r} k q}{a r} \textcircled{5}$$

$$\frac{k q}{a r} \textcircled{1}$$

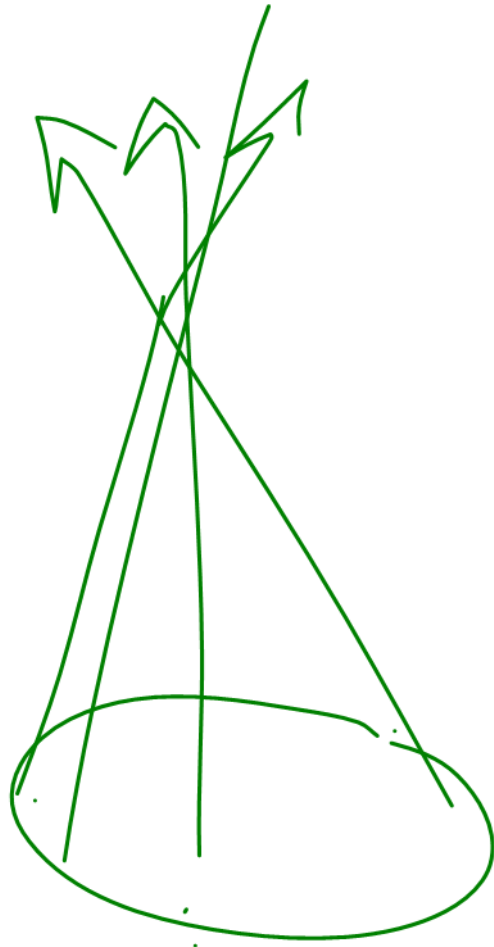


$$\frac{\sqrt{r} k q}{r a r} \textcircled{r}$$

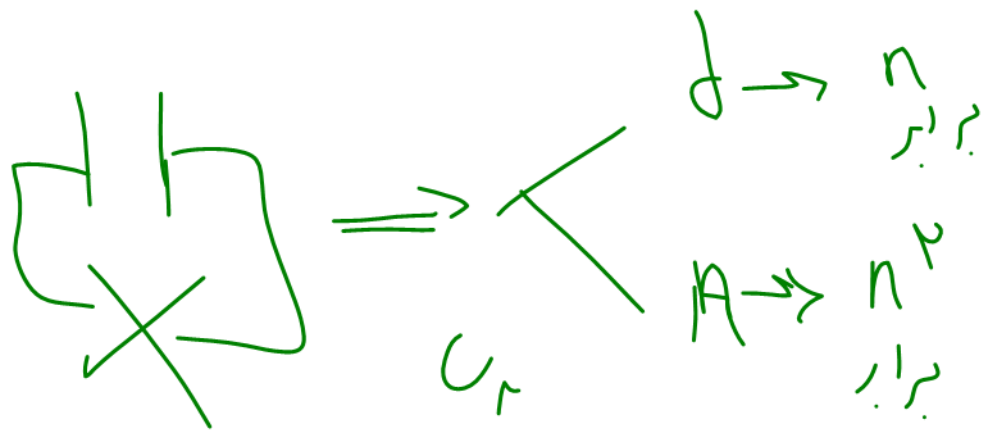
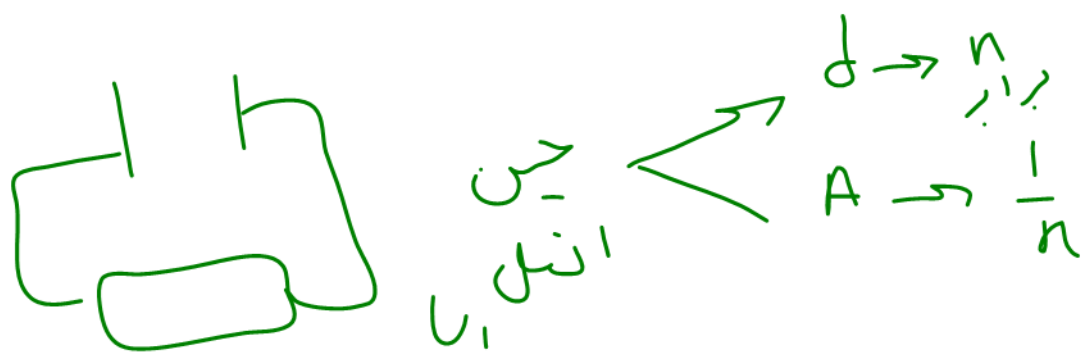
$$\frac{r k q}{a r} \textcircled{r}$$



$$\frac{r k q}{(\sqrt{r} a) r} = \frac{k q}{a r}$$







$$C = k \epsilon \frac{D}{n} = \frac{1}{k}$$

جبین افعال  
سولہ

$C \rightarrow \frac{1}{k}$   
 $V \rightarrow$  ثابت  
 $q \rightarrow$



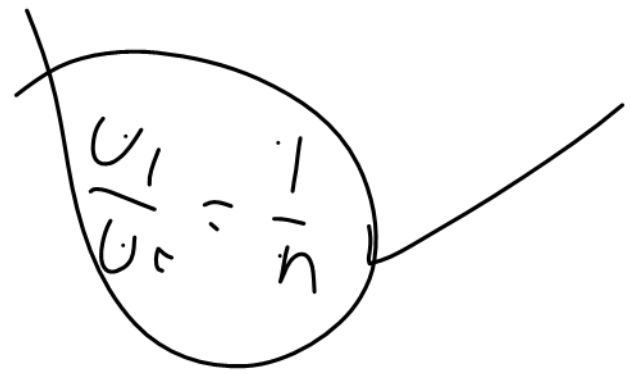
دسنگارن  
خان

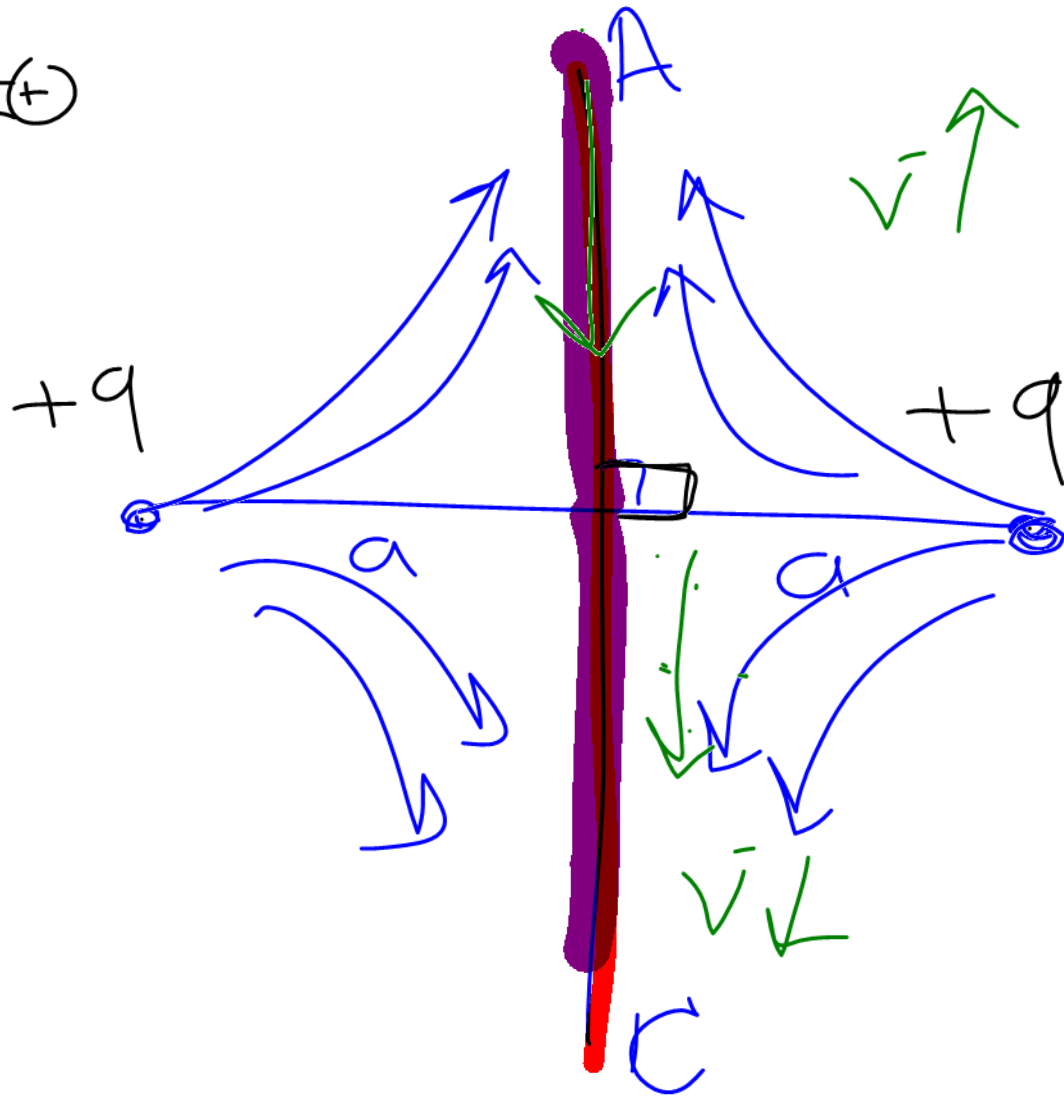
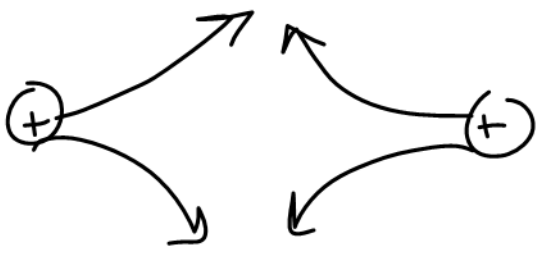
$$C = k \epsilon \frac{A n^2}{n} = n$$

سین ازجا  
کین ازسہ

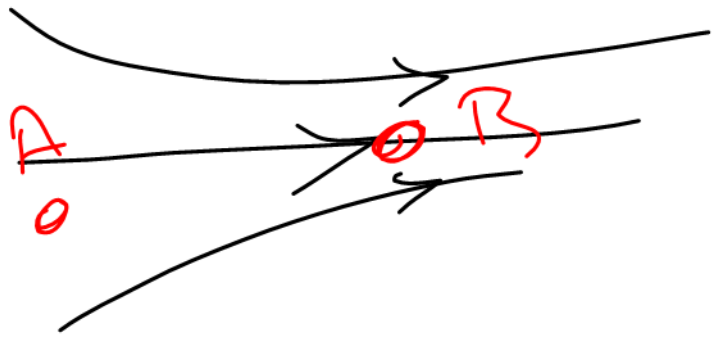
$C \rightarrow n$   
 $V \rightarrow \frac{1}{k}$   
 $q \rightarrow$  ثابت  
 $n \rightarrow \frac{1}{k}$

$U_2$   
 $U_1$   
 $\frac{1}{k}$   
 $n$



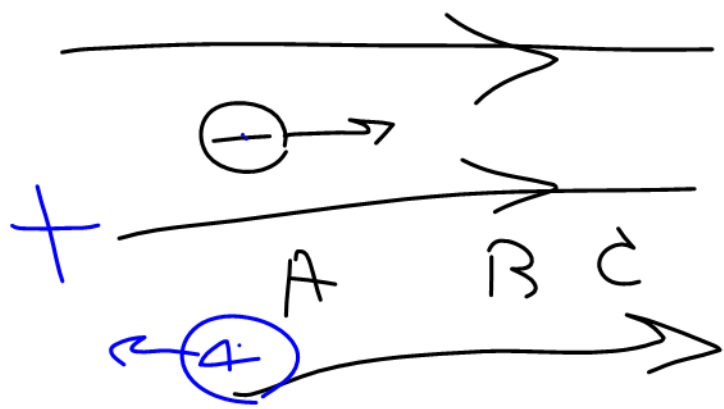






$$E_B > E_A$$

$$F_B > F_A$$

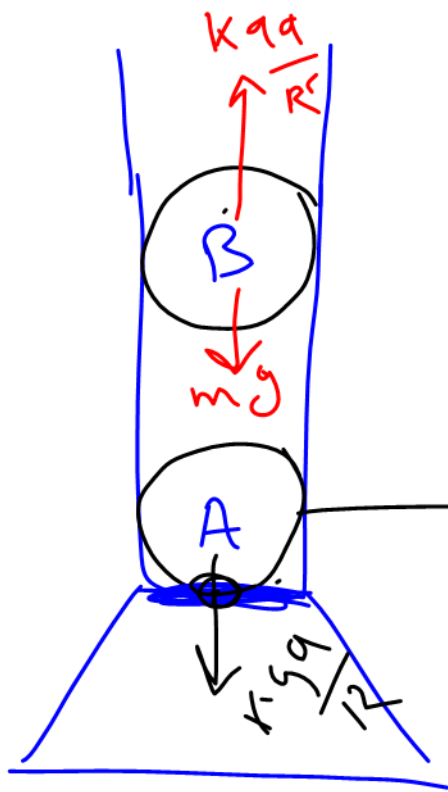


$$\ominus U_C > U_B > U_A$$

$$\oplus U_A > U_B > U_C$$



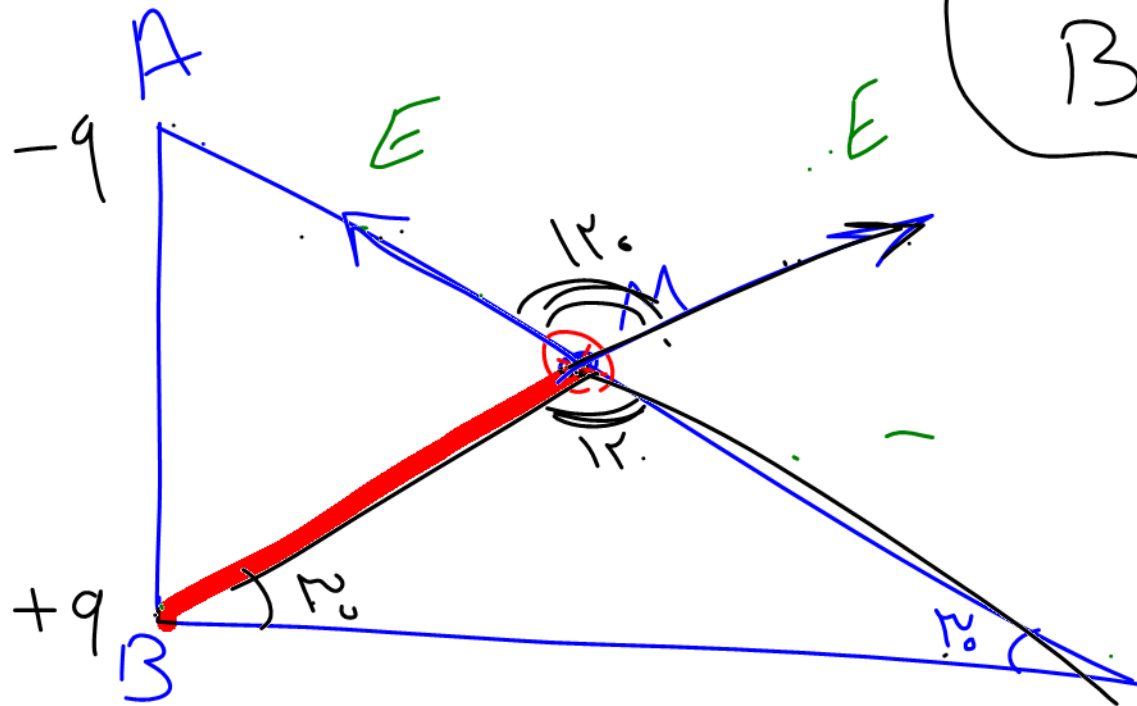
$$\ominus V_C < V_B < V_A$$



$P$

$$F_{\text{مرد}} = \frac{m_A g + \frac{kq q}{r^2}}{|x|_{\text{A}}}$$

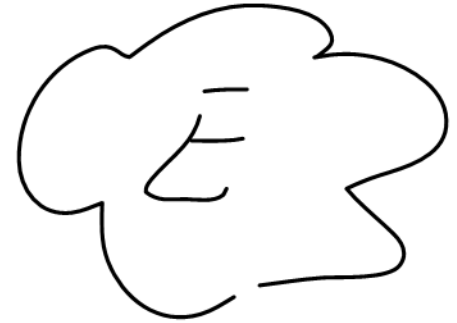
$$P = \frac{1 \times 10^2}{10} = 10$$

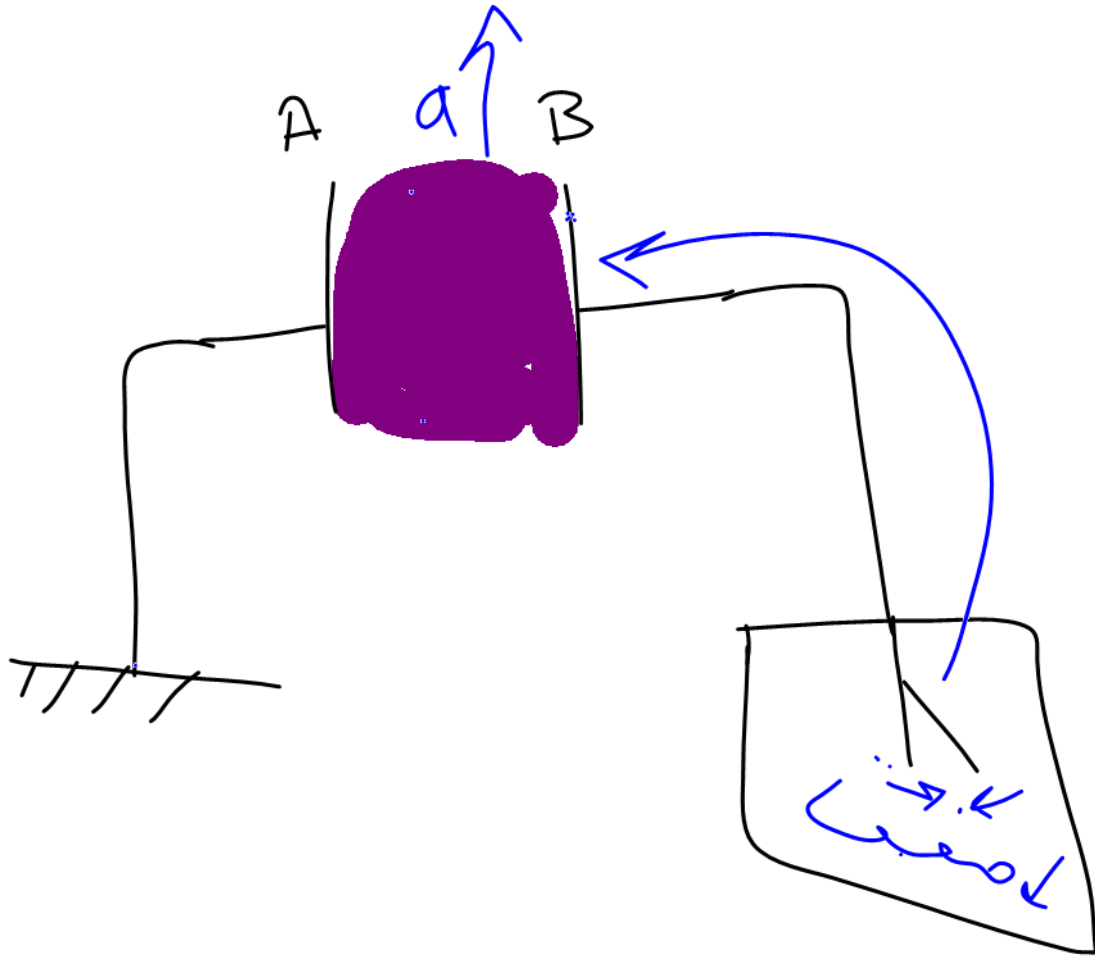


$$BM = AM = MC$$

$$E_T = E \cos \alpha$$

$$E \cos \alpha$$





$$\uparrow C \rightarrow \uparrow K \frac{\epsilon \cdot A}{d}$$

$$C = q$$

$$\uparrow C = \uparrow a$$













































































