15. yell q= +2 pc cle ue leOtles; m= 0,010g den bit parant zaterodeti gibi L=1,5m iszuningunderi ipe softeners re por dige vou P noteter votete elsere tutturulmostur. Peraacie, ip re elses yotay dunnoteli moso trestotedir. Pozacipin electric darla 0=60° 112 acri y optigi zara, paracit duges holde birdeld grade iph obetit dona poaled slanger zones pocación hizm bulunve. Kayti stade Protetoridad V=006in 0 come yorkon ble kommodeli potendeli - E.S = EL. cost olur. Son noletereda 11=-EL over Mosa sortanesiz forz earlerez (K+1); = 14+1)s O = gElcono = ¿moragel $6 = \left[\frac{29EL11-0000}{0,000 \text{ kg}}\right] = \left[\frac{212\times10^{-6}11300\text{ NICITI.5m}}{0,000 \text{ kg}}\right]$ = 0.0300 m15 14. Bayer you yearnigh h=40pc re bayer work yourse p=0.100 kg/m de jolitims bir aubijan herdisme die degratheda E=100VIm Itz design on eleterite des innote itz laiza hadret ettiter sorra aubigen hum bulist. hirzor selbest birduliyor. 16) Fleurit des cionisque une déglise Col gileunin soniti nosil adorn orantesin. Berlangia neteriorda V=0 dan - Laisbigma boss de gritte resale dende Gere V=-Ed 1)=->LEd youldsir. (Q) (K+1)1; = (K+1)) 0+0 = 1 pl 62 - ALFd 10= [2/16d] = [2/40×10 6 c/m] (100N/c) 2m] = 0 400mb bl Aynı olur. 777

9. K etsenine penalel normet eden bir elektronun orjinoleni hir 3,7×10 mls idir. Elektronun hizi ,×=2c_10e ozolook 1,4×10 mls degerni aliyar. x=2 cm noktesi ile orgini arandeti poteniyel tekin, heseployinit. Hengi nokte dona 30xxxx poteniyel dedir. $\frac{1}{2}$ me = 9,11×10 mly ae = 1,6×10 c $\frac{1}{2}$ $\frac{$

Sould Bor honor, I don bor haven't have be g boy happing sides yelestively him Sull 92 bodolly bur is supprient perektigning sosteinit.

$$= 0 + U_2 + U_3 + U_{23} + (U_4 + U_2 + U_3 + U_3 + U_2) + (U_4 + U_2 + U_3 + U_3 + U_3 + U_4)$$

$$= 0 + \frac{Q^2}{2} + \frac{Q^2}{5} + \frac{Q^2}{5}$$

getilde dogen elektrik den negetit y
ersen aggruthande ve 325V/m sidoletinde
ersen degruthande ve 325V/m sidoletinde
dir. A noletennin koordinate (10,2,0,5) m alir.
B noletennin koordinate, (0,4,0,5) m alir.
Mari gizylei kullande VB-VA potenigel
polem heocpleyinit.

DV = E-d = 1325 V/mllaim) = 260 V B date y Charle potential Son 37 1320 in belli bor bodgesi Greende elektrikal potensiyel V = 5x - 3xy 12y = olarde veriliyar av bodgede elektrik danin xiyit bolescheine alt ipodeleini bullinge. Kardinaher meme xiyit bolescheine alt ipodeleini bullinge. Kardinaher meme consinder verler (1,0,-1) olarak verler 12 noktosinakel, elektrik danin bodoriage ne kadardir)

 $\frac{x=1}{2} = 0$ $\frac{y=0}{2} = -\frac{2}{39} = -\frac{2}{39} (5x - 3x^{1}y + 2y + 1) = 3x^{2} - 27 = 30(1)^{2} - 21 - 27$ = 7 Vim

$$E_{\frac{1}{2}} = -\frac{3}{3e} = -\frac{3}{3e} (5x - 3x^{3}y + 2y^{2}) = -2y = -2.0 = 0$$

 $E_{\frac{1}{2}} = -\frac{3}{3e} (5x - 3x^{3}y + 2y^{2}) = -2y = -2.0 = 0$