0

2

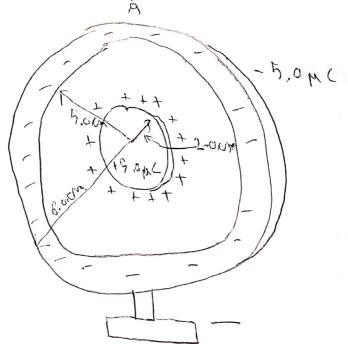
MAME - SHRE YAS SRINIVASA BLAZER IV - SSRINIVA

Anno Electorer field function of the prior system 4:5

El = S ka A, 2.0 cm < x < 5.0 cm

O, elsewhere

The patritish difference between two sprinters and is a significant out mountail enough the significant of t



entituded a order is restricted and all restrains in constitutions in constitutions in constitutions of the factorists desirately and a constraint in constance i

UB - UA = 0V

If A is chosen to be sot infinity,

The electric protection at the surface of the spherical shall

(b) you the electric pretented at the surprise of the inner sphere: 10 - 1A = - (E. d3 $V_B - V_A = \begin{cases} 2.000 \\ \frac{1}{92} \end{cases} \left(\frac{kQ}{n} \right) \cdot \left(\hat{n} d\theta \right)$ UB- UA = KQ [] 2,0000 $N_B - N_A = M_B \left[\frac{1}{(2.0 cm)} \left(\frac{100 cm}{100 cm} \right) \right] \left(\frac{1}{(100 cm)} \left(\frac{1}{(100 cm)} \right) \right]$ No- 1/2 = 30kg pres ready set to hartestay self eros a V bours of U, erest phenical shill respectively But 1 V = 0. substituting Q = 5 pc and k= 9×109 Nm² C-2 m squartion (2). Ja= 70 xax109 Nm2 C-2 x 4pl x 16 Va= 13.5 × 105 V . The protestand od the primer sphere is $V = 13.5 \times (0.5)$. all mony re exercises a to know a to belief northele and (3) inner surface of the electric field is: RG A. - is thirty touch to laterated withole all が、真ニート (2)

Siver, the sleetering field in the limit di- 5,00m is yours;

i. V = -] RQ der

bullituting, $Q = 5 \mu C L R = 9 \times 10^9 \text{ M m²} C^{-2}, the electric frotestial inside the space between the spherical shell and the sphere is:$

(d) The liver sphere is metallic and all the charge raided

example sell discount belief mixtures and of event.

The electric protontial inside the sphere is - V = - V E. A. .

$$\frac{1}{2} \cdot V = -\int_{2}^{5, \text{cen}} \vec{E} \cdot \vec{k} \vec{r} - \int_{2}^{\infty} \vec{E} \cdot d\vec{r}$$

who works man for the ment over more films soll

(3)

Deducing this ps me sechent in fract (b), $V = 13.5 \times 10^5 \text{ V}.$

R

able of large time knowledge of graphers with to lastrated,

(e) Let 8 be a project at a distance of promite mulpone of a spherical shell.

in 9 to laitratory set 1 in 1 and 1 is 1 = 1

sone is leady to distribute the special with entering the last contract of the last principal and is in the special and in