Time: Date: / /

Name: Md Pairand Islam Bhuiton
Il : 20101239

Section: 16

A 451 rgrwent! 3

Bun id: Raitan Rifat

gruit: raitarul islam bhuigan@ g.bnacuach

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Am to the D; N;3.1

KVd -mg

- K = mg (Amr))

Ez= mof kvu

-> fg- mg + \frac{mg}{Vd}. Vu

=) \frac{V}{d} \cdot \qq = \mag{C} \left\{ \frac{Vu}{Vd} \right\}

(Aren;)

Sub:\_\_\_\_

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(c)

wass of droplet, m= 4 xxxpra3

= \frac{4}{3} \tag{31.1616} \tag{82.5} \tag{0.5} \tag{0.5} \tag{6}

(J)

~ -- 4.315 x10'6 kg

d = 2.09 mm = 2.05 k103 m

v= 11.06 V

a- mg d (VatVu)

V V

'Vat vu 2 Vd

: 9 - mgd · Vd

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(e)

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Arm to the O: DN; 3.2

Using Gards's law,

-- 1797 30 N/C

( b

b - 20m

We know,

e SSE-d3 = 2 ere

Go

But there is no electrice & field between them, SIE = 0 : 9 pre - 0 ( (0) C - 3 m d -- 5 m n2 = 2.5 m We krow, SE JA - Qure -> 0 -- 94 Qin i 9 + 0 ix -- 0 · 0 ix -- - 9

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.: O total ~ Oir + Outer

: O total -- 9+ O owter

-: Oouter - Otal +9

-- 0 + 20x106

- rodkieg (Ami)

haussiar radion n= 2.5 m

-; E - Kg

- 8.98 > X10° X20×106

- 28758-4 NC' LAWY

Q- 204106 JE d'S ES 8.85560015 - 2.26×106 Nm2c1 = 8.98 > × 109 × 10×106 - 35868V (A~x;)

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Now, Vc = Vd = 35968 V (Am.)

Now, V(c+1) - Vi - 35948V (Ami) Sub:\_ (f) b Here E - is it y aris ard (0,0) 1; starce (d) (0/ anis and od is in maxis Here, vis in (0,0) 9 distance (d)

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Am to the D: N: 3.3

(w

n, = 42×10,

- 2 vio i

12 2 1 KIO ; (-3 KIO) ?

.. P - 9, r, + 9, r, + 23 rg

- (3ex 2xio); + (2ex 2 xio); -(5ex2 xio); + (xxxxio);

-- -8 exco?; + 20ex 100

-1.281781077 - 9.2053 ×15297

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( b/

$$= k \cdot \left(\frac{q_1}{n_{P_1}} + \frac{q_2}{n_{P_2}} + \frac{q_3}{n_{P_3}}\right)$$

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(0)

m - ( N/Cm2

~ = 1 N/Cm

P - - - 2×1091 - 44109 3

V (2,81- 3ny (27/4 7)

-, 3 ng (xt)

= 3 x (-2x10) x (4x10) x (-2x10+1)

= (-5.8 ×1026 + 2.4×1012) volts

= 2,3999 x 1012 rolts

(Am)

(9) Total potential = Vp + V (no) - 0.3162+(2.3999xco) - 0.3162 (Am') Atter placing a proton, potential energy = (Vx x ep) = (0.3162×1.602 xco(9)) = 5.0655 X1020 )

Sub:\_

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(4)

Sub:

Time: Date: / /

force & P,

Fp = q. Enî + q. Eyî

ime: Date: / /

(")

Magnitud of acceleration = Ifpl
mp

1-6726 x10-27

-/ 4,29754106 m/52

V KI VV

4, - 2 × 10 ; + 2 × 10 ;

5 2- -2410° i +(zx10°) 1

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Potential at (, = 3mg (n + 1)

= 3x 2 x 10 (2x 10 (2x 10 + 1)

= 1.2 x 10 (Am)

Potential at 52-2x9 (x+1)

-3x-2x0 xxx10 x(2xi0 +1)

- -1.19x1012 V

(A~)

me: Date: / /

(h)

Day | \_\_\_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_\_ | \_\_\_\_\_ | \_\_\_\_\_ | \_\_\_\_\_ | \_\_\_\_\_ | \_\_\_\_\_ | \_\_\_\_\_ | \_\_\_\_\_ | \_\_\_\_\_ | \_\_\_\_\_ | \_\_\_\_\_ | \_\_\_\_\_ | \_\_\_\_\_

- krow,

- 0.35948

-- -1.05052