

Name & Shihab Muhtasim

CIX 10 1 1 2 9 1 2 9 1 - 01 X10 3 1 2 9

ID: 21301610

sec: 08

002

(b) (illiens

a)
$$6_1 = 11 \times 10^{-6} \text{ C/m}^{1}$$

Now, E of infinte sheet,
$$E = \frac{1620}{2}$$

 $\frac{11\times10^{-6}}{2\times8.85\times10^{-12}}$

o STAPX

e will start it

- A - THAPX A

(b) Giren, Radius of shells R = 13 cm P2 (60,6)18)1X11 P3 (32,4,8) Eshell = 21 x 110 9 N/ Chrisbrio 00 Now, S Distance between, P2 and P3 3 $\pi = \sqrt{(32-6)^{2}+0+(8-18)^{2}}$ 5 1 V26 + (-10) ~ = 27.856

Interns of sphere, $E \times 47\pi^{\prime} = \frac{eV}{60}$ $\Rightarrow \alpha = E \times 47\pi^{\prime} C_0$

$$9 \text{ or} = 2|x|0^4 \text{ X} 4x3.1416$$
 $x(27.856)(x|60)$
 $\Rightarrow \text{ or} = 1.813 \times 10^{-6} \text{ C}$
 $\Rightarrow \text{ or} = 1.813 \times 10^{-6} \text{ C}$

From (b), total chary on shell. $\Rightarrow \text{ or} = 1.813 \times 10^{-6}$
 $\Rightarrow \text{ or} = 1.813 \times 10^{-$

NOW, E at Pu, 1.8813×10-6 C. X 4 T (0.38) ~ 1,813×10-6 1.60 × 10 -11 =(8/1/2844.45 M/C 5 in; Bueyton, shet, at Ph; Enres 82 6 0 10 = 621468 N/ci 2 62 1968 T 1(621468) + (1128 94.4) = 621570.94 N/C

it we choose spherical aansian sunface of readous 2/2 at point P3 we get the above tigure But there is no charge enclosed in it. a arnet = 0 As ornt = 0, nt flux will No be = 0.