Fram | Review E(r) &E.da = Pin Eda costo da= f = charge Pr ZEO V=Q

GE?da? = QIN Side = PV Side E Jolq = E 2 MrK = PMBK E = PBZ (r>B)
Outside

Find I through each R.  $I_{170} = I_{170} = I_{170}$ 

MID: 9V - I, 1102 - 330RI3 - 2202 Iz =0 470 and 330 are in Parallel K/1 = 330.470 n=19452 330+470

lower: Plug I, get Is 9V-11052 (00283A) - 420 Is=0 9-3.11 = 420 I5 | I5= 0.0140A IZ= 0.0 143 To get I'4 use outer 9V-110 (0.0283) - 470 I4 - 220 (0.0143)  $2.74 = 470 \text{ T}_4$ 4= 5.83×101 I3+I4 = I2 I3 = I2-I4 = 0.0143 - 0.005 I3 - 8.47 ×10-3 A

$$E_{x} = \frac{1}{3} \times \frac{1}{3$$

$$\begin{aligned}
F_{\varepsilon} &= -dU \\
U_{\varepsilon} \\
V_{\varepsilon} &= -k \times 4b \text{ find } F_{\varepsilon} \\
F_{\varepsilon} &= -(-k) = +k
\end{aligned}$$

$$\begin{aligned}
F_{\varepsilon} &= -(-k) = +k \\
F_{\varepsilon} &= -(-k) = +k
\end{aligned}$$

Fig. Given:

(a+bx) dx = 4V

(a+bx) dx = 4V

$$-\int (a+bx)dx = -\int ax + bx^{2}$$

$$-\int ax + bx = 0$$

$$= -\int ax + bx = 0$$