of the squares in the plane z=0 and bounded by the lines x=0,

Sol": Herea

Again we know Ti = xi+ yi

$$\Rightarrow \vec{F} \cdot d\vec{n} = x^2 dx + xy dy \cdots (1)$$

Again, on AB, N=a, i dn = 0

$$\int_{\mathcal{E}_0} \vec{F} \cdot d\vec{R} = 0 \cdot \cdots - (5)$$

$$\int_{e}^{\infty} \vec{F} \cdot d\vec{r} = \frac{\alpha^3}{3} + \frac{\alpha^3}{2} - \frac{\alpha^3}{3} + 0$$

$$= \frac{\alpha^3}{2} \cdot (Anc.)$$