Gauss Law

Presented by Er. Rohit Gupta (RG Sir)



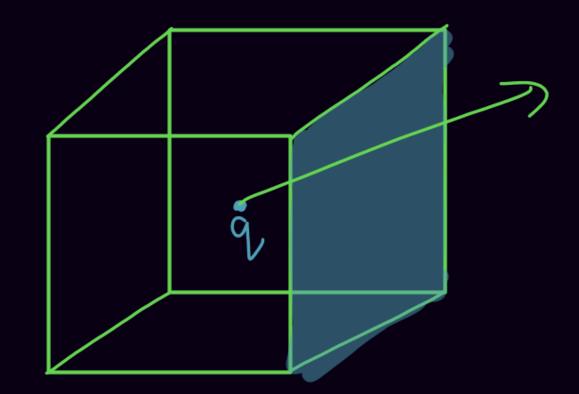
Gausslaw



100 Closed surface F.ds da no. offield lines crossin the sugare.

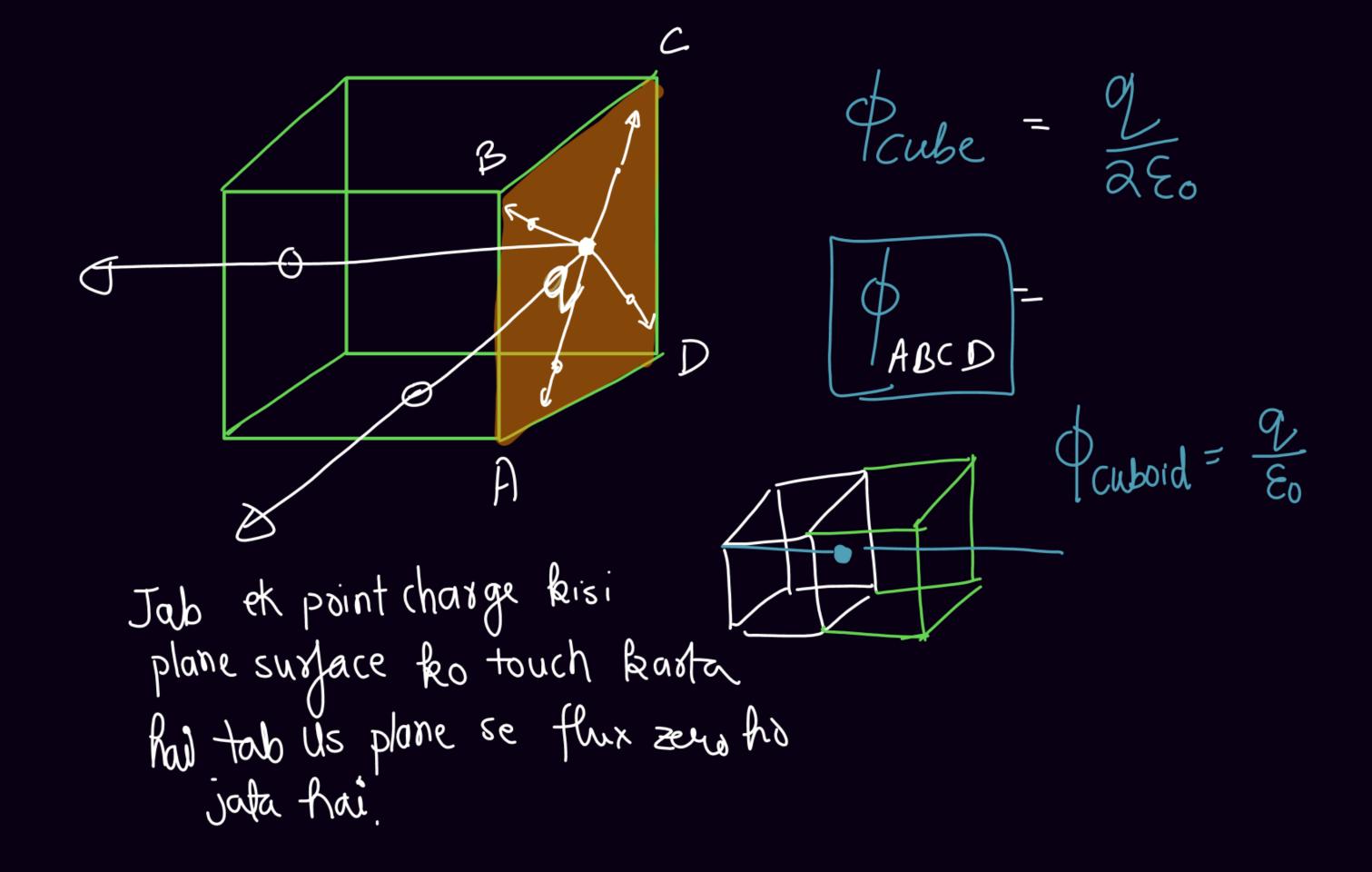


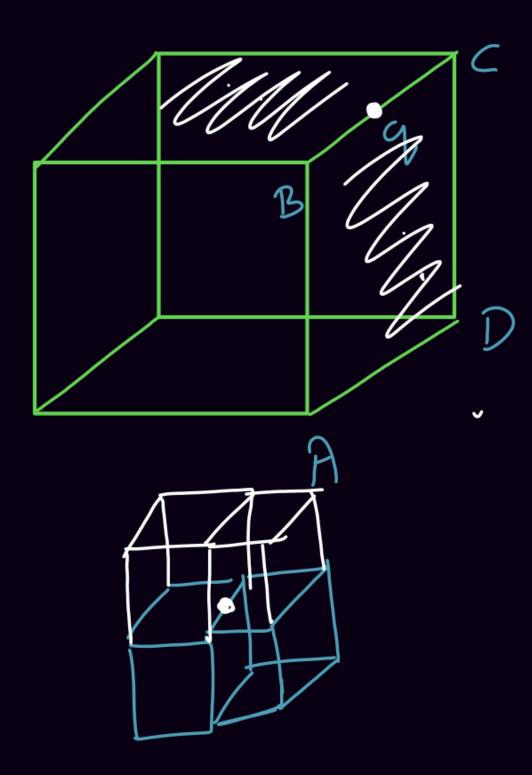
DE ds = 9 in Eo Ocosed surface = chargesin univery G closed Gaussian sy face Jou can not draw any field line from a out charge which enters but don't exit from a closed surface. Polosed surface = $6E - ds' = q_{in}$ 75 d = E ds cos90 = 0



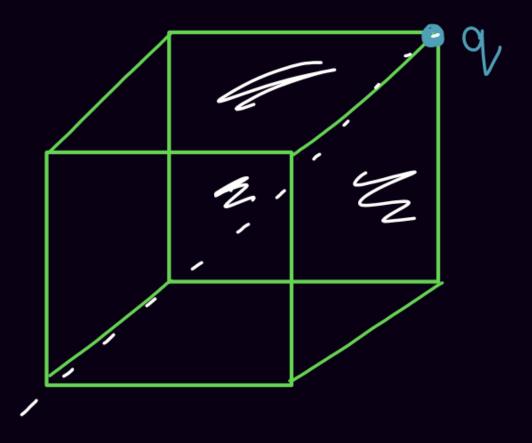
$$\frac{\phi_{\text{Cube}}}{\phi_{\text{Eo}}} = \frac{q}{\varepsilon_{\text{o}}}$$

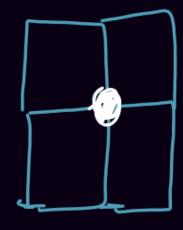
$$\frac{\phi_{\text{Cube}}}{\phi_{\text{Eo}}} = \frac{q}{\varepsilon_{\text{o}}}$$





Probe =? = 9/480 PABCD? = 0



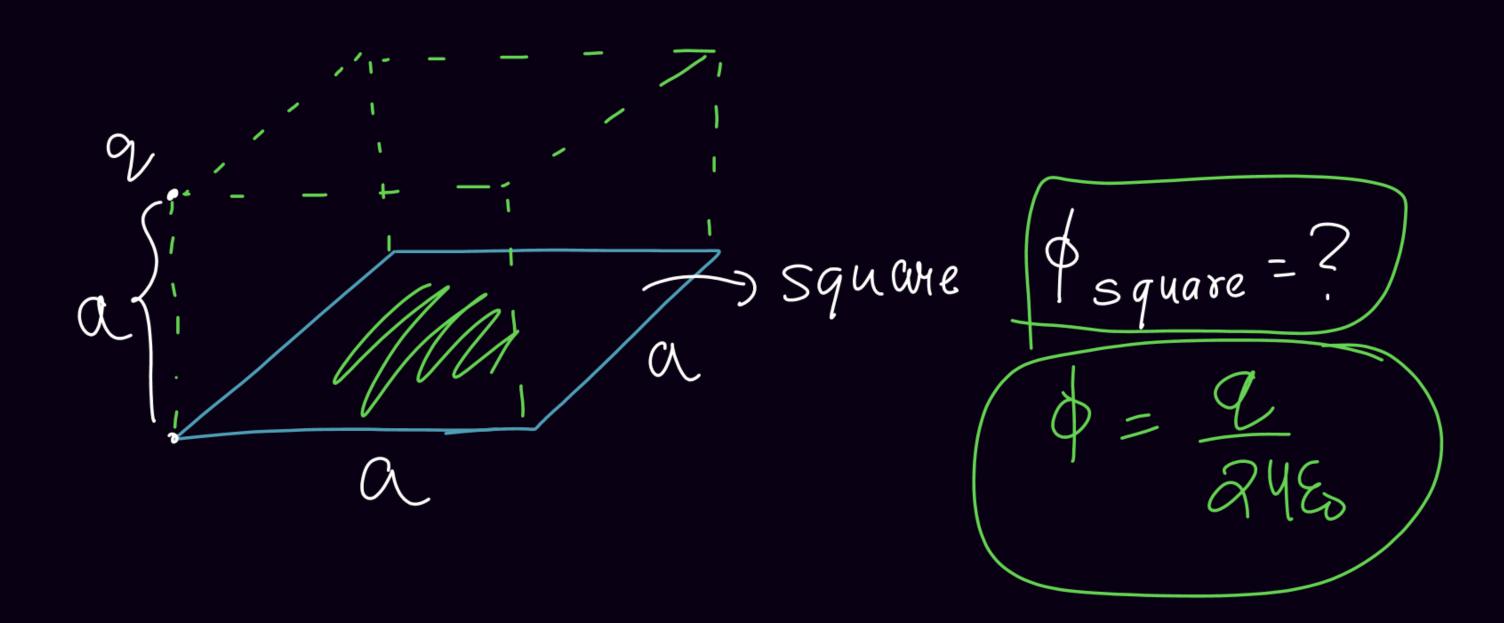


$$\Phi_{\text{cube}} = \frac{9}{8} \epsilon_{0}$$

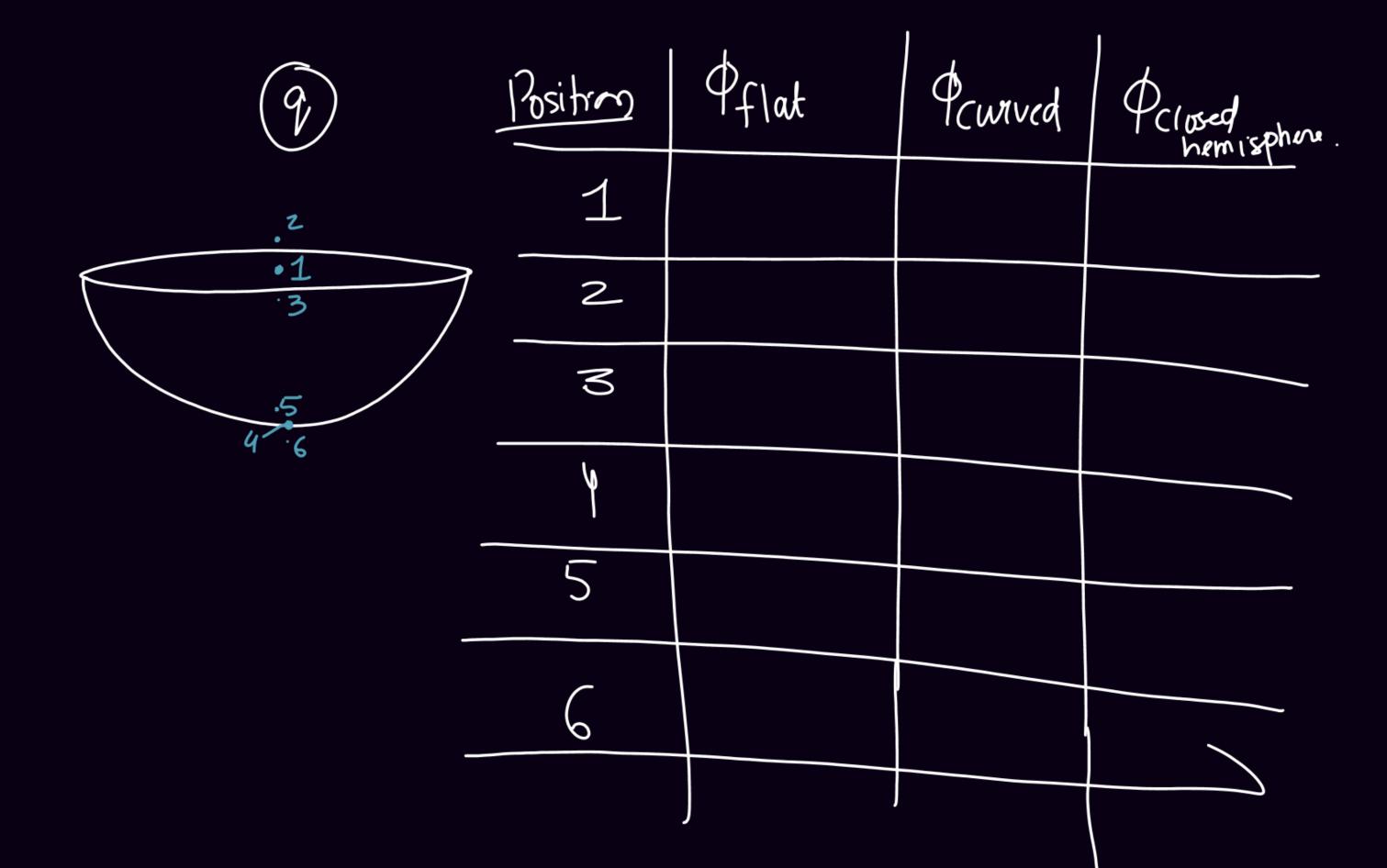
how many face will have zono

$$+$$
 $\phi_{Non adjacent face = \frac{1}{3}(\varphi_{cube})$

Psquare a Square Square



$$\Phi_{\text{sing}} = \frac{2}{\pi \varepsilon_0} (1 - \cos \varphi)$$





Don't stop when you're tired.

Stop when you're done!

THANK YOU!!



