

# METHOD OF IMAGES

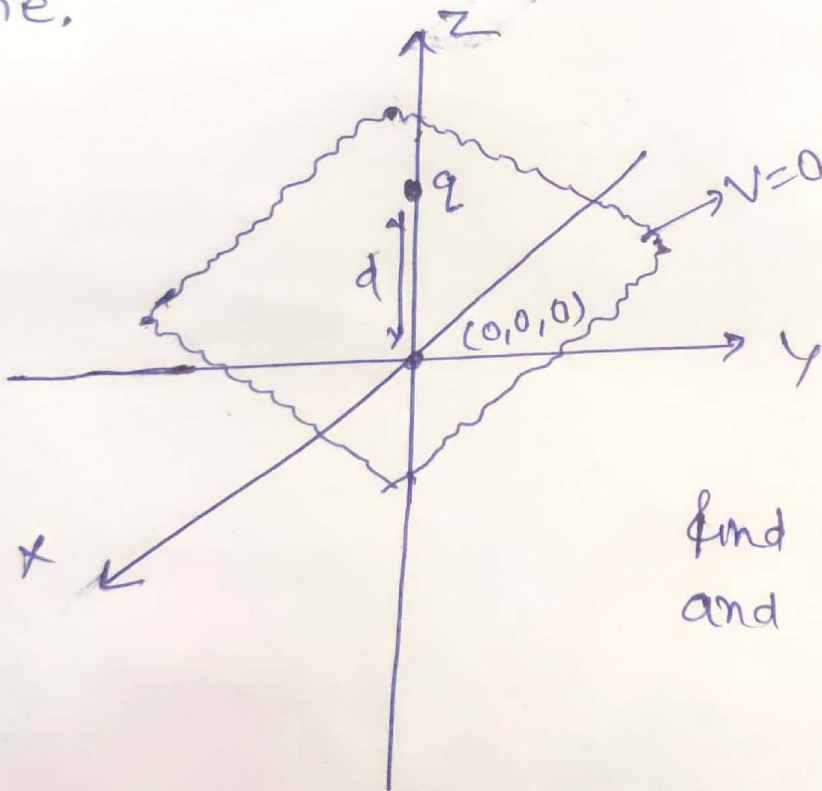
So Force B/w charge ( $q_1$ ) and conducting sphere

$$\Rightarrow F = -\frac{1}{4\pi\epsilon_0} \frac{q_1^2 R S}{(S^2 - R^2)^2} \quad \text{--- (b)}$$

Assignments for Home

- ① Problem - 3.6
  - ② Problem - 3.7
- Griffiths.

③ Find the potential for a point charge  $q$  is held a distance  $d$  above an infinite grounded conducting plane.



find ~~the~~  $V=?$   
and image charge  $= q'=?$