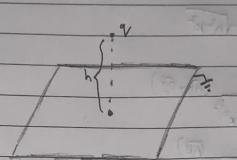
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## PHYSICS PROBLEM PRESENTATION

plate. Find the nadius of the circular area that contains charge -9/3 and has its centre at the foot of perpendicular from charge to plate.



We shall use the method of images to solve this problem. We first find the Electric field on a ging of gradius a from the foot of the perpendicular.

We do this since we know the nelation between charge density and electric field using Maxwell's aquation or Gauss' Law

Mere, the boundary conditions are:

(1) The electric field at the plane Should be normal to it.

(i) The cleature field as we move towards in finity should be zero

Both these conditions are satisfied if we remove the plate and put a regardere charge -q at distance he from the plane of the plate below it.

