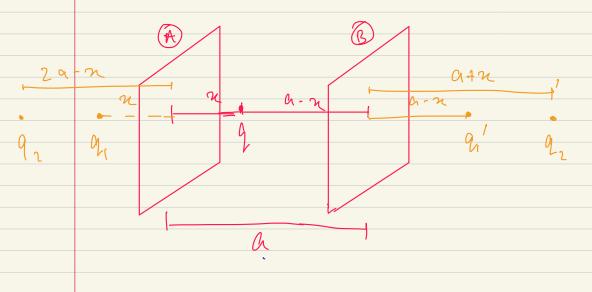
Physics Presentation

Two infinite parallel grounded conducting planes are held a distance *a* apart. A point charge *q* is placed in the region between them, a distance *r* from one plate. Find the force on *q*.



Jaking inspiration from geometrical optics, me can come up with a brial solution as shown. There will be an infinite number of image charges formed.

To satisfy boundary condition, we check if V=0 at places A & B at any point

$$V = \frac{2}{\sqrt{n^2 + y^2}} + \frac{2}{\sqrt{n^2 + y^2}} + \frac{2}{\sqrt{(2n\pi)^2 + y^2}}$$