Nows It experiences equal opposite - q harge forces, hence it is equilibrium. Regarding its stability top equilibrium) i) It it is displaced in a direction I' to the plane of the charges, it experiences a restoring force from the tre charges at the corners and trends to return to its original position thence it is in stable equilibrium with displacements in the along the 2-axis dist. 2) If it is displaced in the plane of the chargesvill now enert a stronger force because I the force given by toulonible law hors inverse square dependence to the distance whell the distance from the other three charges increases and hence the force due to turn decreases. So -9 will move towards the charge it is wearer to. Hence there is no "restoring face" tendency. So it is mustable equilibrium