10/24/23 Discussion: In quations where you are given four pts P,Q,Q,S, and asked if all for lie on the same place, we mude to choose three vectors that douch all of our pts. so the easiest thing to do is to choose vectors all starting at the same pt. e.g. PQ, PR, PS Then we just chick of the cross product of two of ther is arthogonal to the third ex (Pa × PR) · PS = 0 So, something that does NOT work is ra, PR, OR. Since S 21 not in any of the uceties, checking (PaxPr). ar tells you nothing about whether S lies on the plane.