A configuration of N points is just any placement of N points. In order to have VC-dim. of N, a clampier must A) Shaller a nigle configuration of N noist, ie it must be able to, for every possible assignment of two labels, perfectly partition the place much that the labels are reparated Mby the clamifier. Eg: VC-dim. of listar clampier (ie line, in the plane) is ≥3: 于 三 三 三 三 三 三 It doesn't mean, that any configuration of N noish con be hattered, e.g. [+ - +) can't be thattered by one B) not be able to shalfer any unfiguration of N+1 points. For the linear classifier, we thus need to show, that More doen't wit a four moint configuration that wan be shallered. Two main rases have to be considered:

a) All four noish lie on the sonver bull defined by the four noists. The following pricture indicates this intration and a labelling that ion't be shalkred! b) Three of the four noint lie on the worder hull, the remaining are is internal. Then the following Convex hull of a set X = Smalled convex sol containing X Convex = for Awo noish also the Arnight live correcting the is workinged in the set.