ση... σm ∈ V For k ∈ {1,..., m} : ω = ση + ... + ν κ v, vm linearly independent (=) wm ... wm linearly independent (=) Assume va,..., vom lin. independent tot a, ..., am et. Consider a, w, + a, w, + -. + a, w, =0 (=) a, v, + a2(v,+v2) + ... + am(v,+ ... + vm) =0 (=) a, v, + a, v, + a, v, + ... + a, v, + ... + a, v, =0 =) (0,+a2+...+am) v+ (a,+...+am-1) v2+ ...+ . C= mom = 2. Since or,..., om one lin. independent, this is true also linearly independent (1)

