3235 Z:V -> W aplicatie liniava g((x))=(g(x))

3((XX)) = { 3(α1X1+ ... + αμχη) | NEIN, X1,..., XN∈ X, α1,..., αν ∈ K}

8(X) = 28(x0/x1eX)

=> < {(x)) = \$\langle 3(x1) + ... + &u &(xu) | x1,..., xuex, &1,..., &u \in kx | k, weln}

P(n): 8(x1x1+--+ + xnxn) = x18(x1) + --- + xn8(xn)

P(1): Z(XIXI) = XIZ(XI) (Definiția aplicației liniare)

fie Ples Adevarata => 3(x1x1+...+xxe) = x13(x1)+...+xe3(xe)

P(k+1): 3(x1x1+...+xkxk+xk+1xk1) = 3(x1x1+...+xkxk) + 3(xk+xk+1)=

= X12(X1) + ...+ XR2(XR) + XR42(XR1)

Pim, P(n) Adevarata => g((x)) = (g(x))

2) S bijectiva și v baza a lui V => SIV) baza a lui W

V boão => V liniar independenta $\stackrel{\triangle}{=}>3(V)$ liniar independenta (1) => $\langle V \rangle = V$ $\stackrel{\triangle}{=}>\langle S(V) \rangle = W$ (2)

(1)(2) S(v) e pasa a lui W