Let SEF, then f(se) = (f, (se), fm (se)) 1 ( Spf. ..., Spfm ) :5( \ef., ..., \efm ) 5 5 ( f, 'e ... fm' y) = sf(41 V Next, show Bis injective Let f(41 = 0 (f.'(e), ..., fm'le) = 0 (yf, ..., yfm) = 0 Thus for any v. EV; and fi E & (Vi, V, x ... x Vm) 4 f. v = 4 (filvin) = 0 ⇒ & is a zero map. Next, show & is surjective

Let (th.,..., thm) & d(V., 15) x .... x d(Vm, 15)