let R = { M, M2, -- , Mn } eV , M, M2, - , Mn eV. Assure B is linearly dependent. Then, J njeb; nj = & bink. where buef, nx = 10-{mis. ret P be a proper subset of B, s.t

P = B - {n, i} = {m, m, ---, m, -1, m, +1, ---, 2n, 3} Span P = { E. PERE | PEF, MEEP }. Let Picz (an+ajbx) EF. Span P = { \( \sum\_{\mu}, \kappa\_{\mu}, \kappa\_{\mu}, \bappa\_{\mu} \) \( \alpha\_{\mu}, \bappa\_{\mu}, \bappa\_{\mu} \) \( \alpha\_{\mu}, \bappa\_{\mu}, \bappa\_{\mu} \) \( \alpha\_{\mu}, \bappa\_{\mu}, \bappa\_{\mu}, \bappa\_{\mu} \) \( \alpha\_{\mu}, \bappa\_{\mu}, \bappa\_{\mu}, \bappa\_{\mu}, \\ \alpha\_{\mu}, \\ \alpha\_{\mu}, \\ \alpha\_{\mu}, \\ \alpha\_{\mu}, \\ \alpha\_{ nx eps. Spor P = { Z achk + aj Z bchk | alejbre EF, mkep}. span P = { & 9 k m k | ale EF me EB} lecause ai & bk mk = ai nij spmp = spanB. :. Spon  $P = V \Rightarrow P$  spons V. but, since in proper subset of B should not spans V, this is a confradiction. Assumption is incorrect. Bis linearly independent. pris linearly independent.

Ince Balson sport V, B is a books of V.