05 October 2020 Balancing Vectors Enclidian Theorem Let V, Vz, ..., Vn EIR where I vil = 1, & i & Cn]. (i) Then, there exist ε, ε, ωhere every ε; ε \-1,+1} (ii) Similarly there exist E, E, ... En where every & = f-1, til such と、リナをひよーナをかりろう. Knoop: | - J v:-v: / V; = (V;,,Vi2, ..., Vin) E 1R (V3, V32/ -- , V3n) E 18M - リッツ・ナリッシュナ・ーナリッツョ each i indepedently and winhounty

Balancing vectors Page 1

at rondom assign a value from the set 2-1, to be to (8) os R.V. - triMc 8:2 | th pob 1/2 In order to prove the theorem to show that (E[x] = n)X = | E, V, + E, V, | / = (5/1+ 5/1/ - + 5/2/). (5/1/5/24 ---+ 5/ = = 5 5 5; 2; 7; 7; (by Linearly = \( \frac{2}{2} \) \( \frac{2} \) \( \frac{2} \) \( \frac{2}{2} \) \( \frac{2}{2} \ Expertation

