col 5 = col 1 + col 2 + col 4T(e5) = T(e1) + T(e2) + T(e4) $T(e_1) + T(e_2) + T(e_4) - T(e_5) = 0$ T(P1+e2+e4-e5) =0 e1 + e2 + e4 - e5 EN =7 0 EN clearly [] are linearly independent

ore linearly independent

because they're not

scalar multiples of each others + Ho = ? 1 => linearly independent vectors in N. g) Show 1, 12 form a basis for N. X1 + x3 + x4 + 2x5 = 0 42+23+244+3X5=0 X4+X5=0. since cols 3 and 5 dont have plots, set them as free variables. X3=S X5=t X= 51-5-t] | tER }