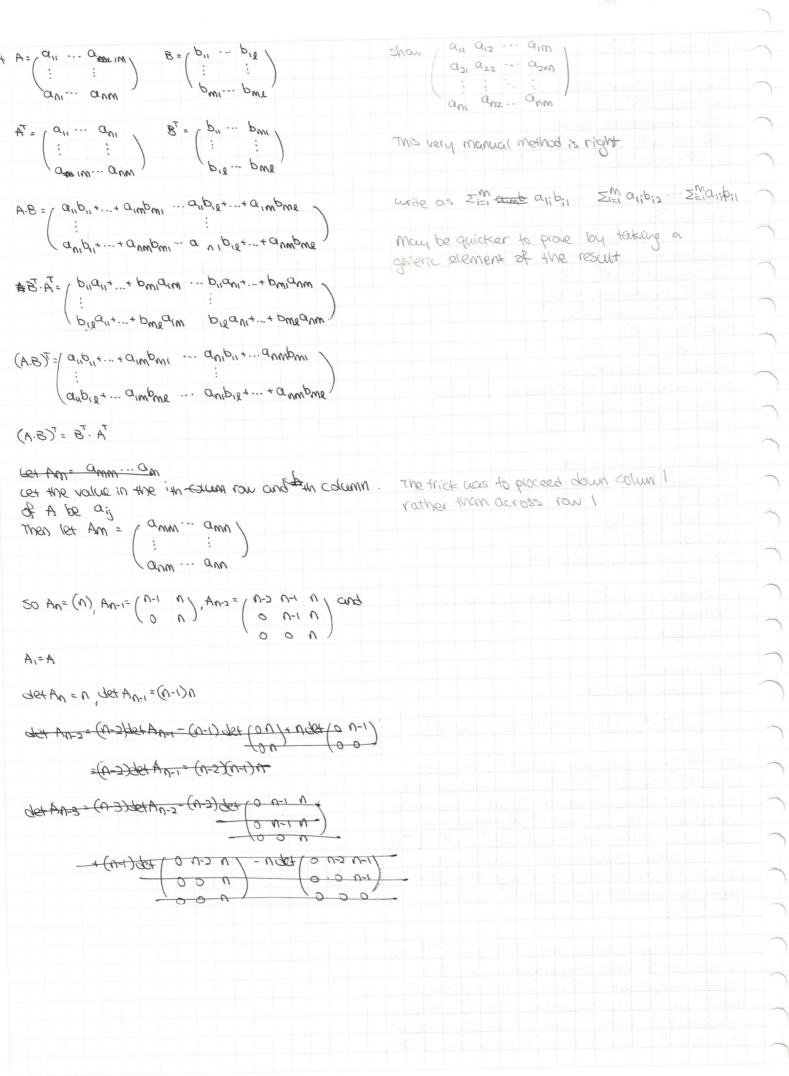


by definition of timear independence, span, 2 is linearly independent of it and v. By inspection, it could violate independent. Then it is linearly independent is linearly independent independent independent independent.

& is and is. Then is, is and is are a base of the of definition of span



```
cet Bn be & n-square matrix where all values
in the first column are 0.
So B_1 = (0), B_2 = \begin{pmatrix} 0 & b_{12} \\ 0 & b_{22} \end{pmatrix}, B_3 = \begin{pmatrix} 0 & b_{12} & b_{13} \\ 0 & b_{22} & b_{33} \\ 0 & b_{32} & b_{33} \end{pmatrix}, CK.
Etci th: det YBn: det Bn =0
Base case(s):
By definition of det, det B1 =0 cand
det B= 0xb= 0xb(2=0
instruction hypothesis:
Assume YKKN det: YBK: det BK=0
 Induction 2466:
 det BAH = 0 det
By definition of det,

det Brit = 0 det ( b_2 b_3 ... b_3 nel

| brit = 0 her | brit = 0 her nel
| - brit det ( 0 - - ) + brit | 0 - - ) - ...
            =0 (by arbudion hypothesis)
 By By induction, YEn: det Bin=0
intuitively, all man's transformations Bn calapse
 the first dimension of TR".
  Then det
  det A = 1 det A2 - 2(0) + 3(0) - ... = 1 det A2
= 1 [ 2 det A3 - 3(0) + 4(0) - ... ] = 1 × 2 det A3
```

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