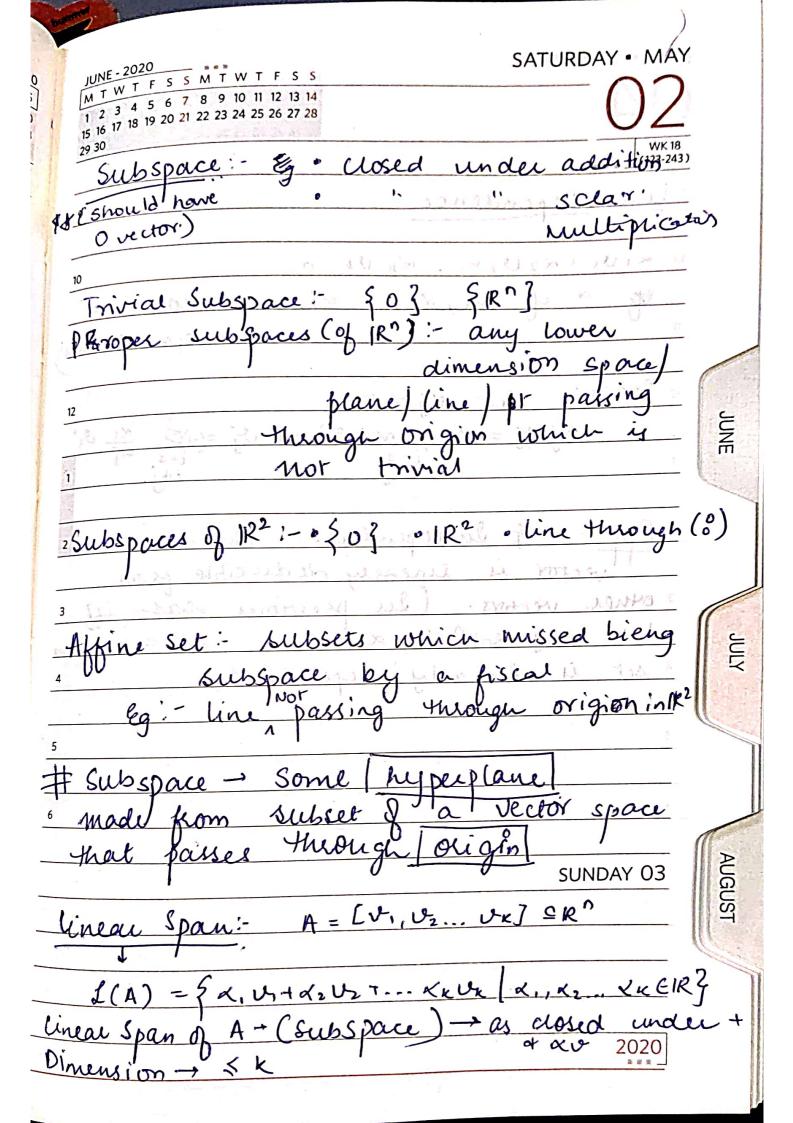
LA JOY AT dML MAY-2020
MAY • FRIDAY MTWTFSSMTWTFSS
1 2 3 4 5 6 7 8 9 10  11 12 13 14 15 16 17 18 19 20 21 22 23 24  WK 18  WK 18  100-1. Attendence
or Introduction to Applied LA
Boyd & Vandenberg
Boyd & Vandenberg  10 . LA & learning from data, y. Strang
"Vector Space: Vis vector space ig  8 a. b E V then k(a+b) E V  12 where k is a scalar (k E F)
va, b E V then K(a+b) CV
12 where k is a scalar (KEF)
Properties'
Commutative a+b=b+ast
2) associative (a+b)+c= a+(b+c) EV
-> additive inverse OEV. st O+a =a
3) additive inverse taev, 3-aev st
a+(-a)=0
1) Distributive « &(a+b) = xa+xb
$(a,b) \in V, x \in f$
10 TO
o (x+B) a = xa+Ba acv, x, BEF
6 Compa = of (Ba)
6 o (x B) a = x (Ba) aev, x, Bef
multiplicative identity exits
DA FRI LIE SAT LIST S
2020



MAY • MONDAY MAY - 2020 MTWTFSSMTWTF 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 (125-241) KIUT + X2 U2 + ... Xx Uh = 0 Reason: let xj \$0  $\alpha_j \psi_j = \mathbb{Z}_{\alpha(-1)} \stackrel{\sim}{\geq} \alpha_i \psi_i \Rightarrow 0$   $\stackrel{i=1}{\underset{i\neq j}{\downarrow}}$ J Independence: No one is linearly deducible from 3 other vectors. (In previous case if the only solf is di=dz=...= xe =0, set is linearly independent)

D. F. N. L. C. X