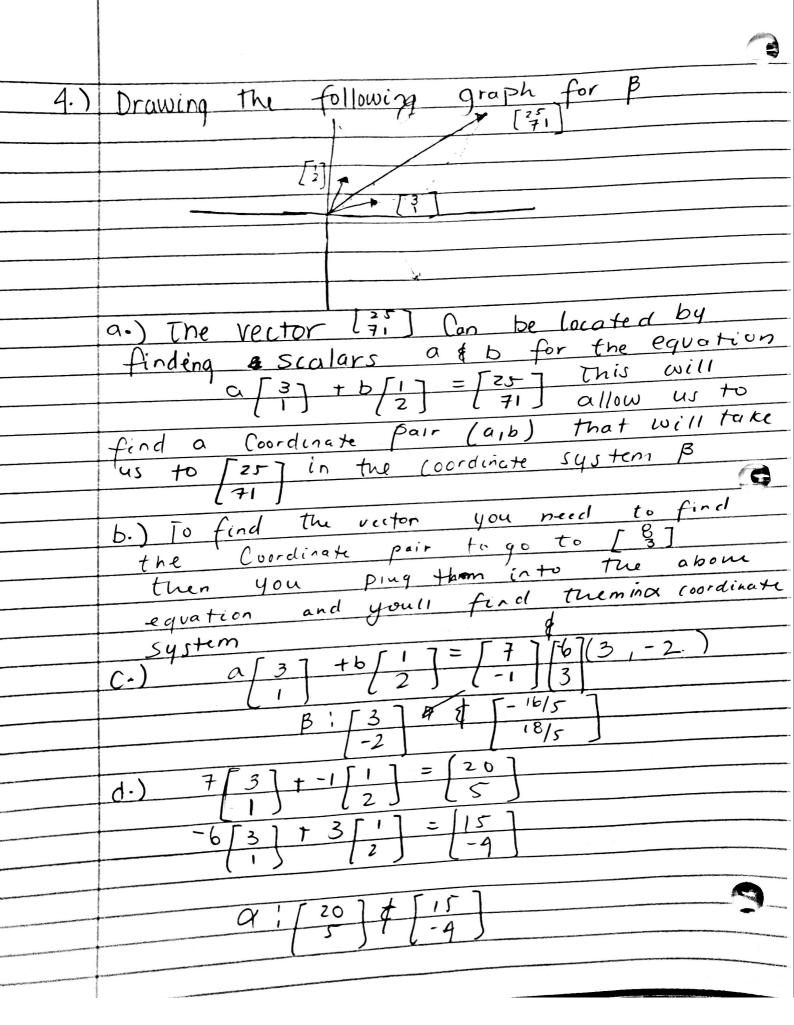
MATHIAI Linear Analysis Homework # 11 Did it in the last homework $F_1 = \det([1]) = 1$ Fz = det([::] b.) Fr = 1 · Fn-1 +1 · det (altered matrix) Fn = 1 · Fn - 1 + 1 (· 1 Fn - 2 + +0 $F_n = F_{n-1} + F_{n-2}$ 3.) Same as part b' but a sign change since the inside sign is different: q.) $D_n = D_{n-1} - D_{n-2}$ Dn = 1. Dn-1-1. det (altered matrix Dn = 1. Dn-1-1 - 1- Dn-2 - 1.0 Dn = Dn-1 - Dn-2We have Dn = Dn-1 - Dn-2 $D_1 = 1$ D2 = 0 $D_3 = D_{3-1} - D_{3-2} = 0 - 1 = -1$ $D_4 = D_{4-1} - D_{4-2} = -1 - 0 = -1$ $D_5 = D_{5-1} - D_{5-2} = -1 - (-1) = 0$ D6 = 1 D7 = 1 D8 = 0 = 7 We see an alternation of signs. Since it wont land on 0, we can predict Droop to be -1 due to this atternation.



5.) a.) Ped: A = (0.1) B = (1.2) C = (-3.-2) d = (1.0) e = (3.-1/2) f = (-2.1/2.-1)Black: A = (1.4) B = (4.7) C = (-8.-5) A = (2.-1) A = (5.1/2.5) A = (6.11/2.5) A = (6.11/2.5)= { b }= [= [0] = [a+4b](+49 $\begin{bmatrix} 1 \\ 0 \end{bmatrix} = \begin{bmatrix} 2a - b \\ 2c - d \end{bmatrix} =$