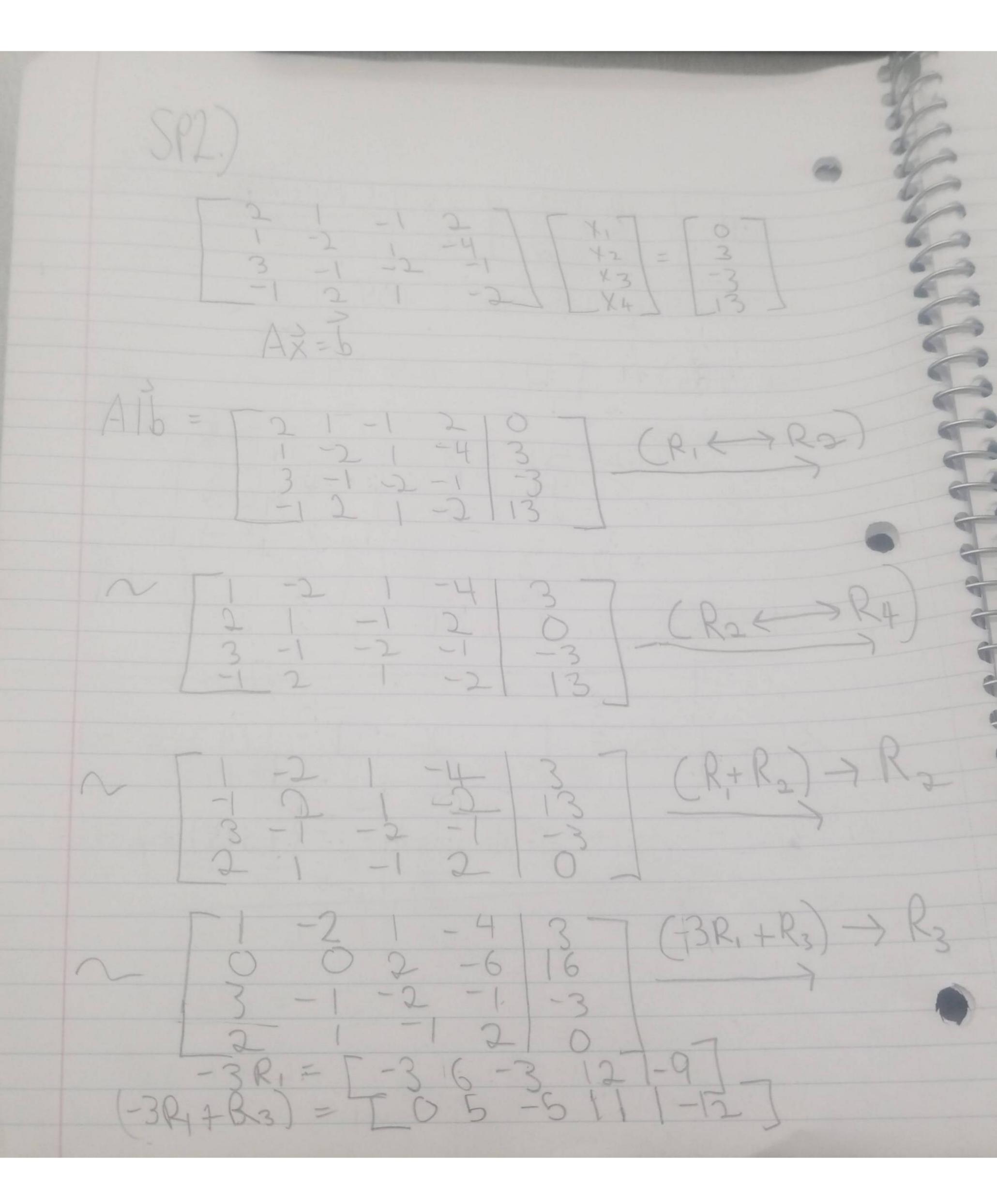
import numpy as np A= pp. amay ([2,-2,1], B12,-5], [-1,23]] R= np.array (E[10], [-16], [8] It creating a augmented matrix append it into AR = np. appead (A, R, axis=1 # appending & into For in range (3):

For in tenge (3):

A Cist = A Cist]/A[i,i] · i=0, j=0

0 3 34 8 (Ra+4R3) > P3 -4R3 = (0-8-281-104) (Ra-4R3) = FOO-241-96] 75+172= 1; X=1-1(4)=- $X_1 - 2X_2 - 3X_3 = -8; X_1 = -8 + 3(4) + 2(-1) = 2$



(-2R,+R2)->R2 -2R1=[-24-28]-6 R2= [2] -2R,+R2= [05-3101-6] [-1 -2 | -4 | 3 (-3R1+R3)->R -3R1 = [-3 6 -3 12 -9 (R3= [3 -1 -2 -11-3] -3R1+R3= [0 5 -6 11 1-12 [1 -2 1-4 3 (R1+R4)-7 R4

0 3 -1 -60 5×4=-10 ; ×4=-2 2x3-x4=6; x3=2 5x2-3x3+10x4=-6 3 x2=4 7,-2x2+73-4x4=3; X1=1

(R, +2R4) ->R4 [43:2] -202->1-42-48)-22 (R1-2R2)= FO5-2-9 RI = [4321117] -4R3 = [-4-8841-32] * R1-4123 = [0-5105] - 151 2R4 = [-4 3 10 -2 30] * R1+2R4 = [0112-1/37] 1 3 2 1 17 (R2+R3) - 2 R3 0 5 -2 9 -5 (R2+R3) - 3 R4 0 -5 10 5 -15 (HR2-5R4) - 3 R4 0= FOO 8 14 1-20

CR, CR3) (-2P1+P2) (-4R1+R3)-3R3 0 -5 10 5 -15 (8R2+1

(-2R3+RD->R1 (= 1 R2 - 2 R2)