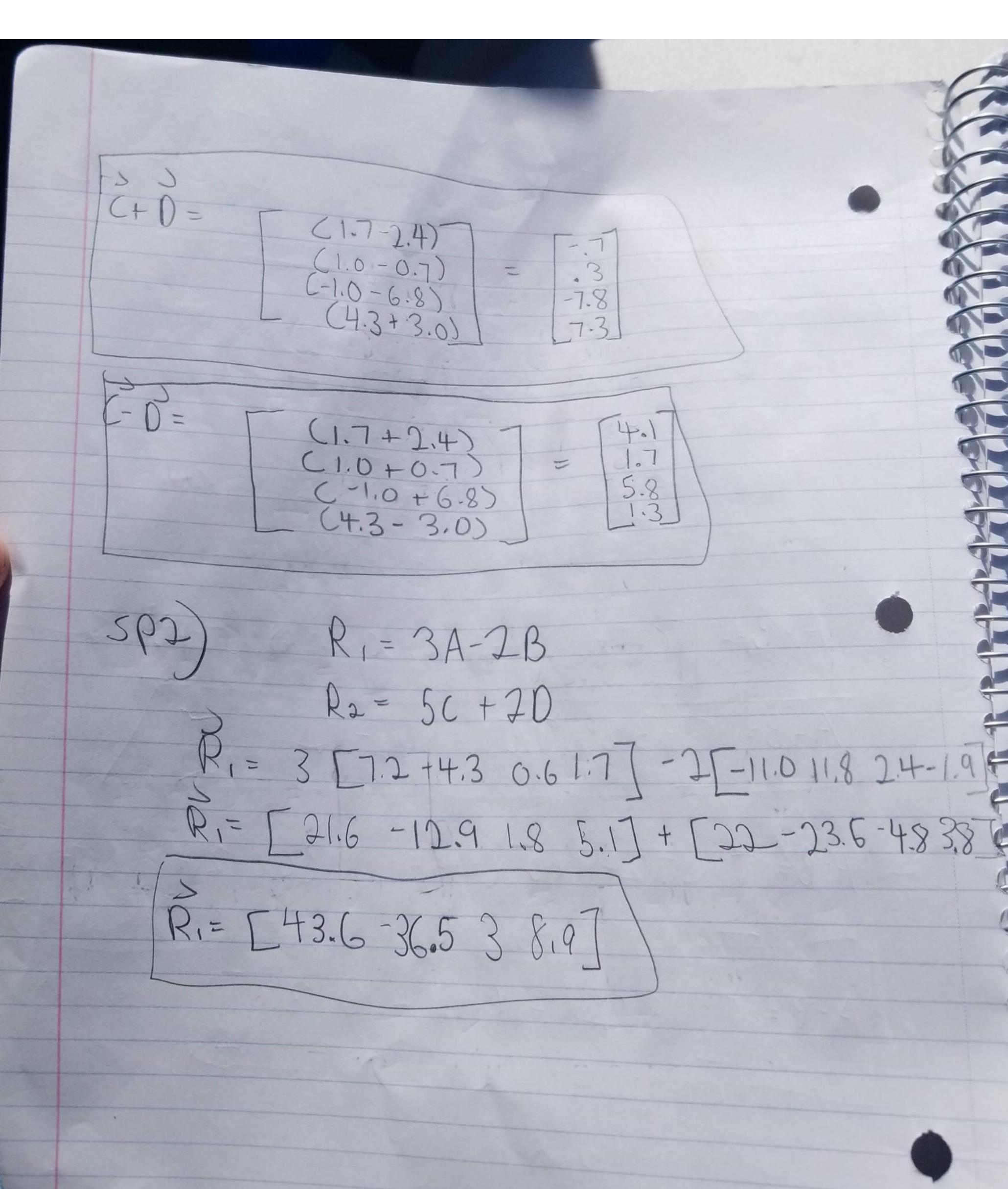
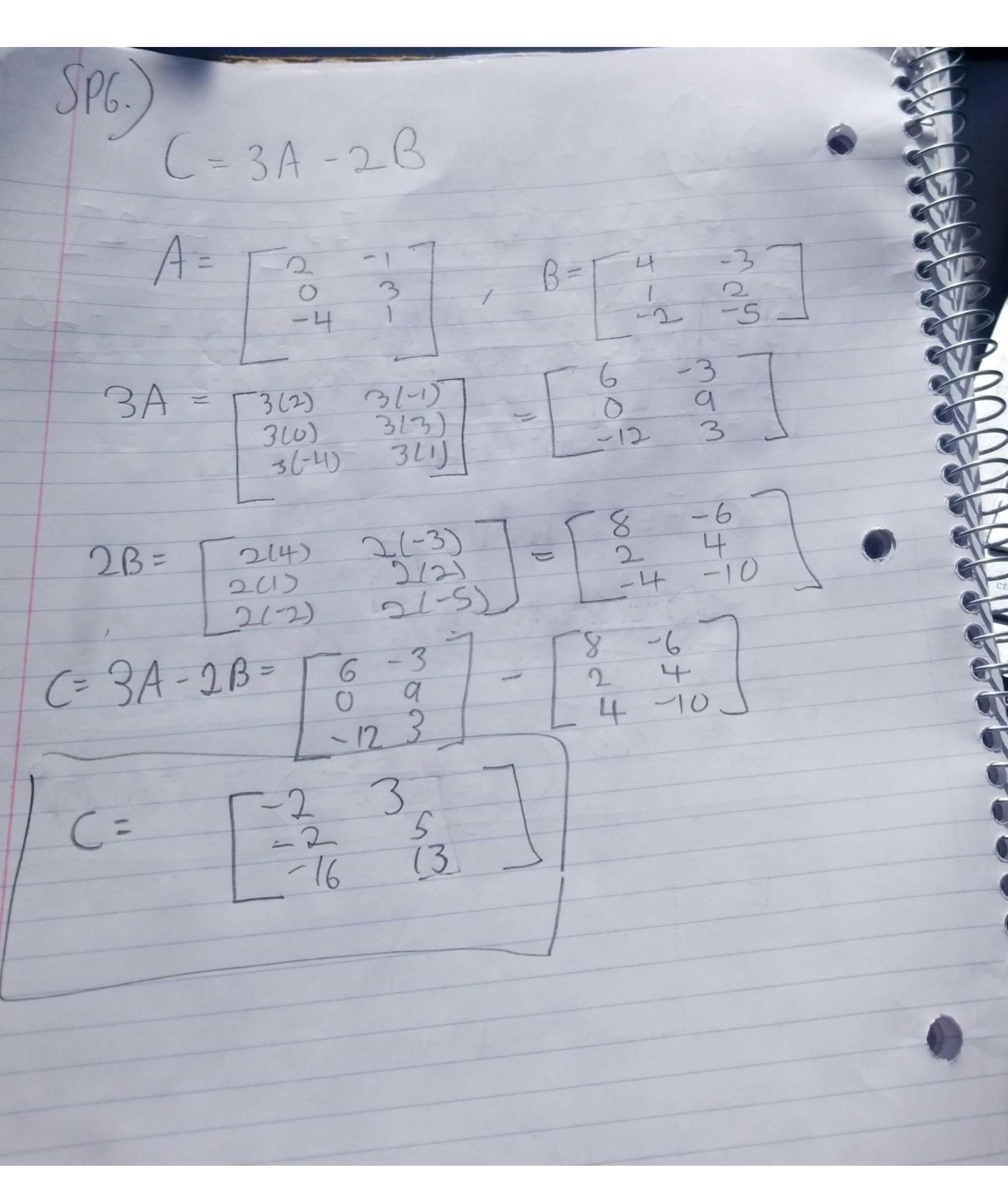
Matrix Operations SPI) A= [7.2 -4.3 0.6 1.7] B= [-11.0 11.8 2.4 -19] D= 1-2.4 1-0.7 -6.8 3.0 A+B= [(7.2-11.0) (-4.3+11.8) -(0.6+2.4) (1.7-19)] A-B= (7.2+11.0) (-4.3-11.8) (0.6-2.4) (1.7+1.9) A-B= [ 18.7 - 16.1 - 1.8 3.6]



F= [7-142-8] F= [1290-4] 2E-3F+R3=0/R3=[-11819-44] R3 = 3F-2E R3:3[1290-4] -2[7-142-8] R3=[3,6,27.0-12]+[-142.-8-416]

7= (2-35], [+= [14-27  $\vec{F} \cdot \vec{H} = (2)(1) + (-3)(4) + (5)(-2) = -20$ 161= 1022+(-3)2+(5)2= 538 1 HI = V CUSZ + C452 + L-252 = V 21 (F.) = | GIIHI COSO,, = (OS O GH



4(3) + (0)(-2) + (-2)(1) + (1)(4)(3)(3) + (-2)(-2) + (4)(1) + (3)(4) Sp8.) -7 -3 -9

CF = [40-2:17-2:19] [-2.1.9-] CE = [(-8-5) (4+4+7) (3(+6+1) (8+18+6)] (-6-6-6-15) (3+2-8+21) (27-4-12+3) (-6-14-36+18) (-13)(3) + (18)(-2) + (14)(1) + (-38)(4)

509 14x2" (-6-2-+12) = (-6+21) (12-9) (12-12) (36) = (-2+7) (12-9) (12-12) (36) = (-2+7) (12-3) (16) (12) = (-2+7) (4-3) (4-4) (12) (Q+10+21)°C6-8+141(0)

Spl.)

$$\begin{bmatrix}
B_1B_1 & B_2 \end{bmatrix} = B_3 & B_3 & B_1 \\
B_1 & B_2 & B_2 & B_2 & B_3 & B$$

SP 12. X+2y+37=55 -3x +4y +77 (-35) +42+48)-(-21+60)59 det (Ay) = (28-46-63)-(-36+21-165)

det (Az) = [3] (dellA2)= (-7-24-60)-(+6+16-42) det(Az) = -80