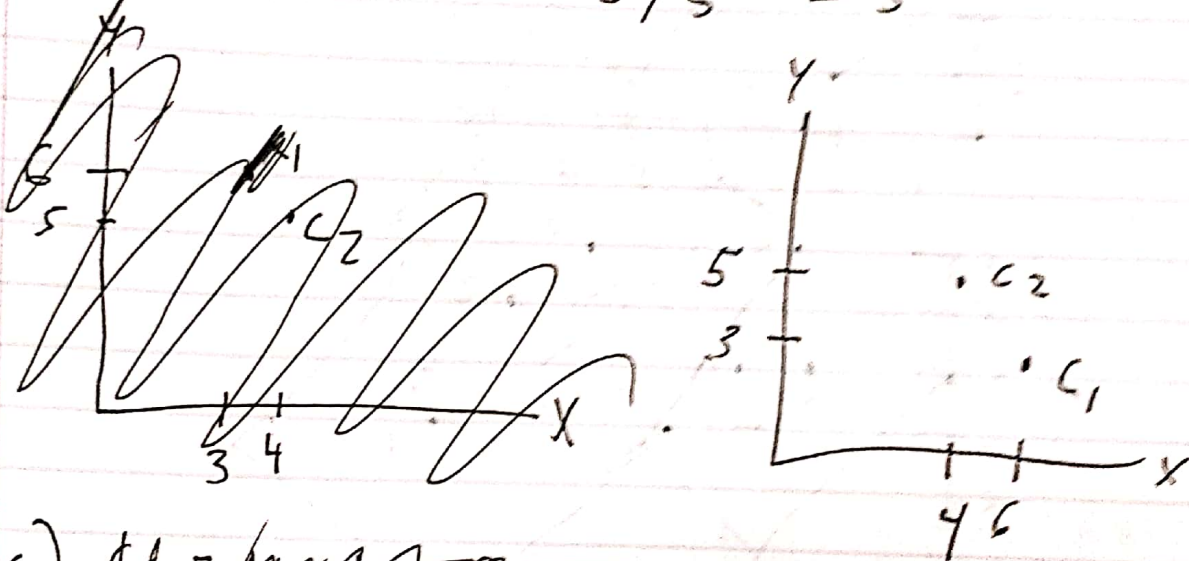


Ether Seal

a) $C_1 - 1, 3, 4, 2, 7$
 $C_2 - 5, 6, 8$

b) $C_1 X: 5 + 7 + 7 + 4 = 23$
 ~~$30/5 = 6$~~
 $C_1 Y: 2 + 2 + 3 + 3 + 5 = 15/5 = 3$

$C_2 X: 3 + 4 + 5 = 12/3 = 4$
 $C_2 Y: 4 + 5 + 6 = 15/3 = 5$



c) ~~$C_1 = 4 + 4 + 16 + 9 + 25 = 58$~~
 ~~$C_2 = 4 + 9 + 9 = 22$~~

$C_1 = 4 + 4 + 16 + 9 + 25 = 58$
 $C_2 = 4 + 9 + 9 = 22$

New $C_1 = 1 + 4 + 4 + 4 + 9 = 22$
 New $C_2 = 1 + 4 + 9 = 14$

Much better

d) because initial conditions may cause the clusters to be different, and some clusters are obviously better than others.

e) All points would go to c_1

