12-04-25
Exercise 3
COM231-VIL

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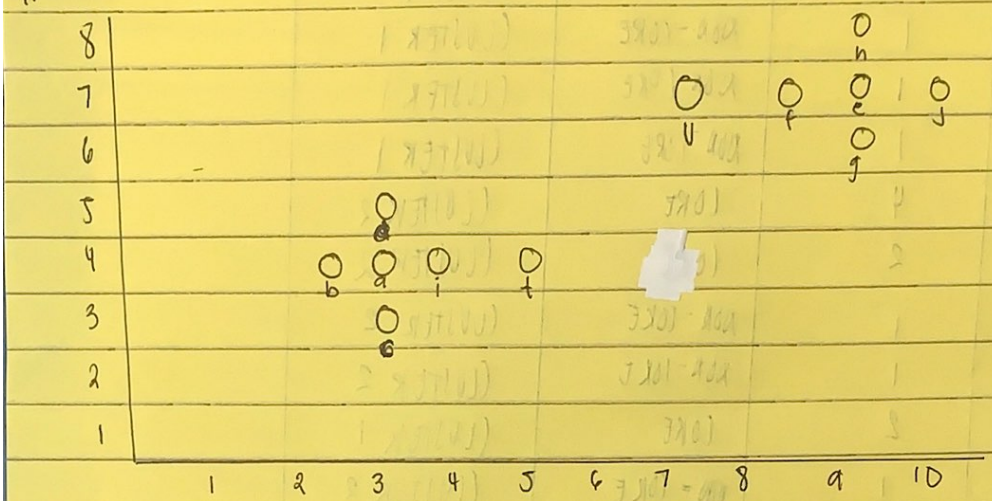
1.



2.-3. TA

$TA = \sqrt{(5-3)^2+(4-4)^2}$ $TB = \sqrt{(5-2)^2+(4-4)^2}$ $TC = \sqrt{(5-3)^2+(4-3)^2}$ $TD = \sqrt{(5-3)^2+(4-5)^2}$

TA = 2 u TB = 3 u TC = 2.2 u TD = 2.2 u

$TE = \sqrt{(5-9)^2+(4-7)^2}$ $TF = \sqrt{(5-8)^2-(4-7)^2}$ $TG = \sqrt{(5-9)^2+(4-6)^2}$ $TH = \sqrt{(5-4)^2+(4-8)^2}$

TE = 5 u TF = 4.2 u TG = 2.2 u TH = 5.6 u

$TI = \sqrt{(5-4)^2+(4-4)^2}$ $TJ = \sqrt{(5-10)^2+(4-7)^2}$ $TV = \sqrt{(5-7)^2+(4-7)^2}$ $TT = 0$ u

TI = 1 u TJ = 5.8 u TV = 3.6 u

$UA = \sqrt{(7-3)^2+(7-4)^2}$ $UB = \sqrt{(7-2)^2+(7-4)^2}$ $UC = \sqrt{(7-3)^2+(7-3)^2}$ $UD = \sqrt{(7-3)^2+(7-5)^2}$

UA = 5 u UB = 5.8 u UC = 5.6 u UD = 4.4 u

$UE = \sqrt{(7-9)^2+(7-7)^2}$ $UF = \sqrt{(7-8)^2-(7-7)^2}$ $UG = \sqrt{(7-6)^2+(7-6)^2}$ $UH = \sqrt{(7-4)^2+(7-8)^2}$

UE = 2 u UF = 1 u UG = 2.2 u UH = 3.1 u

$UI = \sqrt{(7-4)^2+(7-4)^2}$ $UJ = \sqrt{(7-10)^2+(7-7)^2}$ $UU = 0$ u $UT = \sqrt{(5-7)^2+(4-7)^2}$

UI = 9.2 u UJ = 3 u UT = 3.6 u

	A	B	C	D	E	F	G	H	I	J	T	V
T	2	3	2.2	2.2	5	4.2	2.2	5.6	1	5.8	0	3.6
U	5	5.8	5.6	4.4	2	1	2.2	3.1	4.2	3	3.6	0

6.-Q.

	Neighbours	No. of Neighbours	POINT TYPE	CLUSTERS
A	B, I, D, I	4	CORE	CLUSTER 1
B	A	1	NON-CORE	CLUSTER 1
C	A	1	NON-CORE	CLUSTER 1
D	A	1	NON-CORE	CLUSTER 1
E	H, G, F, J	4	CORE	CLUSTER 2
F	E, U,	2	CORE	CLUSTER 2
G	E	1	NON-CORE	CLUSTER 2
H	E	1	NON-CORE	CLUSTER 2
I	A, T,	2	CORE	CLUSTER 1
J	E	1	NON-CORE	CLUSTER 2
T	I	1	NON-CORE	CLUSTER 1
U	F	1	NON-CORE	CLUSTER 2

7.