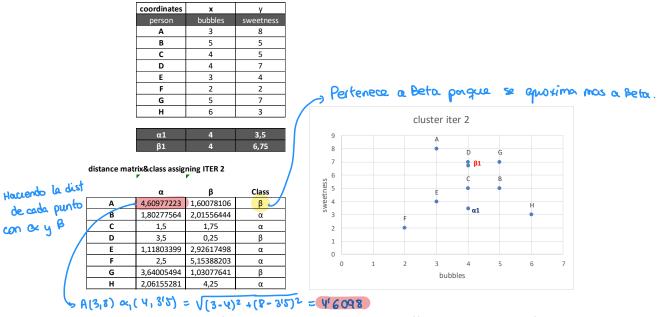


2.- K-NEAREST NEIGHBOURS (KNN), k=1,2,3

We have calculated the clusters using K-means, and the results are the following



Now we want to classify new customers to decide to offer them product alfa or beta

The customers' j preferences are in the first table and KNN solution in the second:

coordinates	х	У
person	bubbles	sweetness
j	5	2

The result is

	j	K=1	K=2	K=3
Α	6,32455532			
В	3			α
С	3,16227766			
D	5,09901951			
E	2,82842712		α	α
F	3			α
G	5			
Н	1,41421356	α	α	α
	min1,2,3,	1,41421356	2,82842712	3
	point	Н	Е	F

Choose a new customer preference and classify it using KNN 1,2,3

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3	กบ	imens	

coordinates	х	У		
person	bubbles	sweetness		
k	5	8		
	k	K=1	K=2	K=3
Α	2			
В	3			
С	31162			
D	71414			
E	41432			
F	80519			
G	1			
Н	51099			
	min1,2,3,	1	2	3
	point	G	A	B