A1: (2, 10)

B1: (5, 8)

C1: (1, 2)

Da	to Det				Dista	nce to		A.	Cluster	New
υa	ta Poi	nts	2	10	5	8	1	2	Cluster	Cluster
A1	2	10								
A2	2	5								
АЗ	8	4								
B1	5	8								
B2	7	5								
ВЗ	6	4								
C1	1	2								
C2	4	9								

$$d(p_1, p_2) = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

A1: (2, 10)

B1: (5, 8)

C1: (1, 2)

Da	to Doi:	-t-		Ct	Dista	nce to			Cluster	New
Da	ta Poi	nts	2	10	5	8	1	2	Cluster	Cluster
A1	2	10	0.	00	3.	61	8.	06		
A2	2	5	5.	00	4.	24	3.	16		
АЗ	8	4	8.	8.49		5.00		7.28		
B1	5	8	3.	61	0.00		7.	21		
B2	7	5	7.	07	3.61		6.71			
В3	6	4	7.	7.21		4.12		5.39		
C1	1	2	8.	8.06		7.21		0.00		
C2	4	9	2.24		1.41		7.62			

$$d(p_1, p_2) = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

A1: (2, 10)

B1: (5, 8)

C1: (1, 2)

Da	to Det	nte		100	Distar	nce to	IV.		Cluster	New
υa	ta Poi	nts	2	10	5	8	1	2	Cluster	Cluster
A1	2	10	0.00		3.61		8.06		1	
A2	2	5	5.	00	4.	24	3.	16	3	
АЗ	8	4	8.	49	5.	5.00		28	2	
B1	5	8	3.	61	0.	0.00		21	2	
B2	7	5	7.	07	3.	3.61		71	2	
В3	6	4	7.	21	4.	12	5.	39	2	
C1	1	2	8.	8.06		7.21		00	3	
C2	4	9	2.24		1.41		7.62		2	

$$d(p_1, p_2) = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

A1: (2, 10)

B1: (5, 8)

C1: (1, 2)

New Centroids:

A1: (2, 10) ~

B1: (6, 6) —

Da	to Dei	nte			Dista	nce to			Cluster	New
Da	ita Poii	IILS	2	10	5	8	1	2	Cluster	Cluster
A1	2	10	0.	00	3.	61	8.	.06	1	
A2	2	5	5.	00	4.	24	3.	16	3	
АЗ	8	4	8.	49	5.	5.00		.28	2	
B1	5	8	3,	61	0.	0.00		21	2	
B2	7	5	7.	07	3.61		6.	71	2	
ВЗ	6	4	7.	21	4.	12	5.	.39	2	
C1	1	2	8.06		7.	7.21		.00	3	
C2	4	9	2.	2.24		1.41		.62	2	

$$d(p_1, p_2) = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

A1: (2, 10)

B1: (6, 6)

D-	ta Dei	nte	Dis	tance to	Cluster	New
Da	ita Poi	nts			Cluster	Cluster
A1	2	10		V2	1	
A2	2	5			3	
А3	8	. 4			2	
B1	5	8			2	
B2	7	5			2	
В3	6	4			2	
C1	1	2			3	
C2	4	9			2	

$$d(p_1, p_2) = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

A1: (2, 10)

B1: (6, 6)

Da	ta Dair				Dista	nce to			Cluster	New
Da	ta Poi	nts	2	10	6	6	1.5	1.5	Cluster	Cluster
A1	2	10	0.	00	5.	66	6.	52	1	1
A2	2	5	5.	5.00		12	1.	58	3	3
A3	8	4	8.49		2.	83	6.	52	2	2
B1	5	8	3,	61	2.	2.24		70	2	2
B2	7	5	7.	07	1.41		5.	5.70		2
В3	6	4	7.	21	2.	00	4.	4.53		2
C1	1	2	8.06		6.40		1.	1.58		3
C2	4	9	2.	2.24		3.61		6.04		1

$$d(p_1, p_2) = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

A1: (2, 10)

B1: (6, 6)

C1: (1.5, 3.5)

New Centroids:

A1: (3, 9.5).

B1: (6.5, 5.25)

D-	to Dei				Dista	nce to			Cluster	New
Da	ita Poii	nts	2	10	6	6	1.5	1.5	Ciustei	Cluster
A1	2	10	0.	.00	5.	66	6.	.52	1	1
A2	2	5	5.	5.00		12	1.	1.58		3
А3	8	4	8.	8.49		83	6.	.52	2	2
B1	5	8	3.	61	2.	24	5.	.70	2	2
B2	7	5	7.	07	1.	41	5.	.70	2	2
В3	6	4	7.	21	2.	00	4.	4.53		2
C1	1	2	8.	8.06		40	1.	.58	3	3
C2	4	9	2.	2.24		3.61		6.04		1

$$d(p_1, p_2) = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

A1: (3, 9.5)

B1: (6.5, 5.25)

D-	ta Dai	-t-			Dista	nce to			Cluster	New
Da	ta Poi	nts	3	9.5	6.5	5.25	1.5	3.5	Cluster	Cluster
A1	2	10	1.	1.12		6.54		52	1	1
A2	2	5	4.	61	4.	.51	1.58		3	3
А3	8	4	7.	7.43		.95	6.	52	2	2
B1	5	8	2.	50	3.	.13	5.	70	2	1
B2	7	5	6.	02	0.	.56	5.	5.70		2
В3	6	4	6.	26	1	.35	4.	4.53		2
C1	1	2	7.	7.76		.39	1.	58	3	. 3
C2	4	9	1.	1.12		4.51		6.04		1

$$d(p_1, p_2) = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

A1: (3, 9.5)

B1: (6.5, 5.25)

C1: (1.5, 3.5)

New Centroids:

A1: (3.67, 9)

B1: (7, 4.33) C1: (1.5, 3.5)

Da	+= D=i			46	Dista	nce to		600	Cluster	New
Da	ta Poi	nts	3	9.5	6.5	5.25	1.5	3.5	Cluster	Cluster
A1	2	10	1.	12	6.	.54	6.	52	1	1
A2	2	5	4.	61	4.	.51	1.58		3	3
A3	8	4	7.	7.43		.95	6.	52	2	2
B1	5	8	2.	50	3.	.13	5.	70	2	1
B2	7	5	6.	02	0.	0.56		5.70		2
В3	6	4	6.	26	1.	.35	4.53		2	2
C1	1	2	7.	7.76		.39	1.	58	3	3
C2	4	9	1.	1.12		4.51		6.04		1

$$d(p_1, p_2) = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

A1: (3.67, 9)

B1: (7, 4.33)

D-	ta Dai	-t-			Dista	nce to			Cluster	New
Da	ta Poi	nts	3.67	9	7	4.33	1.5	3.5	Cluster	Cluster
A1	2	10	1.9	94	7	.56	6.	52	1	
A2	2	5	4.3	33	5	.04	1.	58	3	
АЗ	8	4	6.6	52	1	.05	6.	52	2	
B1	5	8	1.6	57	4	.18	5.	70	1	
B2	7	5	5.2	21	0	0.67		5.70		
В3	6	4	5.5	52	1	1.05		4.53		
C1	1	2	7.49		6	6.44		58	3	
C2	4	9	0.3	0.33		5.55		6.04		

$$d(p_1, p_2) = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

A1: (3.67, 9)

B1: (7, 4.33)

D-	to Dai	n+-			Dista	nce to			Cluster	New
Da	ta Poi	nts	3.67	9	7	4.33	1.5	3.5	Cluster	Cluster
A1	2	10	1.9)4	7	.56	6.	52	1	1
A2	2	5	4.3	4.33		.04	1.	58	3	3
А3	8	4	6.6	6.62		1.05		52	2	2
B1	5	8	1.6	57	4.18		5,	70	1	1
B2	7	5	5.2	21	0.67		5.	5.70		2
В3	6	4	5.5	2	1	.05	4.53		2	2
C1	1	2	7.49		6	6.44		58	3	3
C2	4	9	0.3	0.33		5.55		6.04		1

$$d(p_1, p_2) = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$