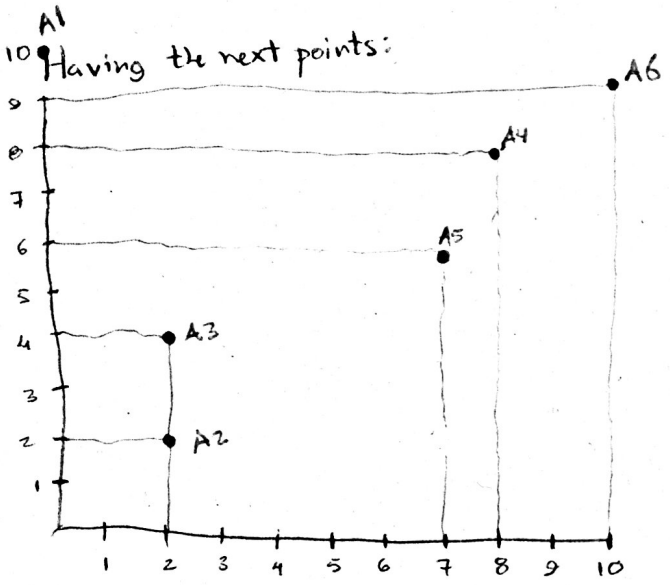
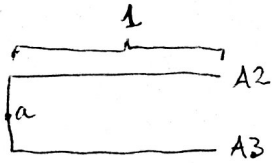
Having the next points:



we have the next matrix of palrwise distances:

	A1	A2	A3	A4	A5	A6
A1	0	8.25	6.32	8.25	8.06	10.05
A2		0	2.0	8.49	6.40	10.63
A3			0	7.21	5.39	9.43
A4				0	2.24	2.24
A5					0	4.24
A6						0

We combine A2 and A3: $2.0/2 = 1$



Recalculation of matrix:

$d(A1, A2UA3) = \frac{8.25 + 6.32}{2} = 7.285$

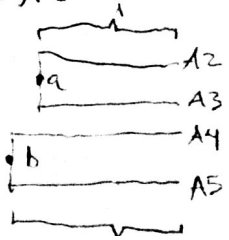
$d(A4, A2UA3) = \frac{8.49 + 7.21}{2} = 7.85$

$d(A5, A2UA3) = \frac{6.40 + 5.39}{2} = 5.895$

$d(A6, A2UA3) = \frac{10.63 + 9.43}{2} = 10.03$

	A1	A2UA3	A4	A5	A6
A1	0	7.285	8.25	8.06	10.05
A2UA3		0	7.85	5.895	10.03
A4			0	2.24	2.24
A5				0	4.24
A6					0

We combine A4 and A5 (A4 and A6 combination is possible too) $2.24/2 = 1.12$



Recalculation of matrix:

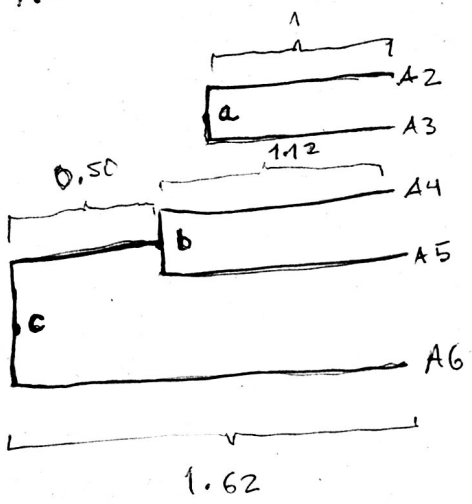
	A1	A2UA3	A4UA5	A6
A1	0	7.285	8.155	10.05
A2UA3		0	6.87	10.03
A4UA5			0	3.24
A6				0

$$d(A6, A4UA5) = \frac{2.24 + 4.24}{2} = 3.24$$

$$d(A1, A4UA5) = \frac{8.25 + 8.06}{2} = 8.155$$

$$d(A4UA5, A2UA3) = \frac{8.49 + 7.21 + 6.40 + 5.33}{4} = 6.87$$

we combine A6 and A4UA5 : 1.62



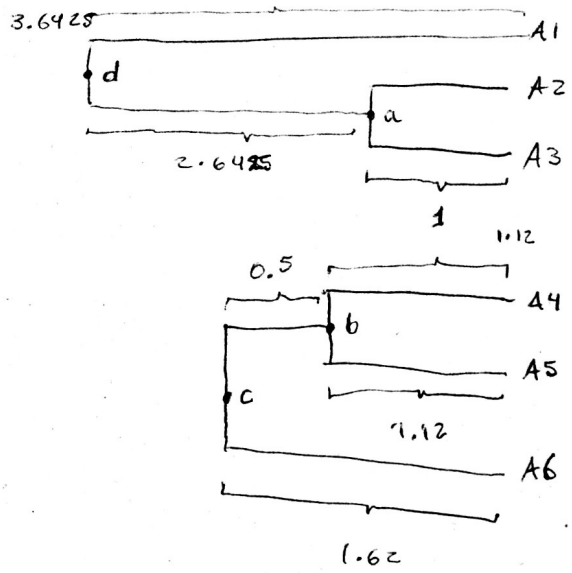
Recalculation of matrix :

	A1	A2UA3	A4UA5UA6
A1	0	7.285	8.786
A2UA3		0	7.925
A4UA5UA6			0

$$d(A1, A4UA5UA6) = \frac{8.25 + 8.06 + 10.05}{3} = 8.786$$

$$d(A2UA3, A4UA5UA6) = \frac{8.49 + 6.40 + 10.63 + 7.21 + 5.29 + 9.43}{6} = 7.92$$

We combine A2∪A3 and A1: 7.285/2 = 3.6425



Recalculation of matrix:

	A1∪A2∪A3	A4∪A5∪A6
A1∪A2∪A3	0	8.2122
A4∪A5∪A6		0

$$d(A1 \cup A2 \cup A3,\ A4 \cup A5 \cup A6) = \frac{8.25 + 8.06 + 10.05 + 8.49 + 6.40 + 10.63 + 7.21 + 5.39 + 9.43}{9}$$

$$= 8.2122$$

Final union of branches: 8.2122/2 = 4.1061