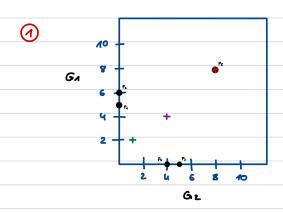
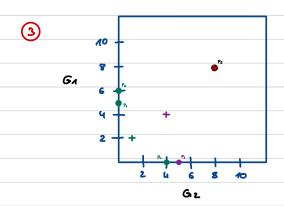
7.1) k=3



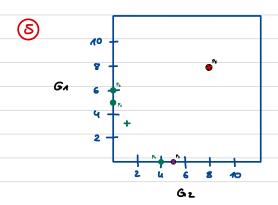
2 Euhlidische Distanzen:

	+	+	+	
Pa	4,12	3,16	8,54	Bsp:
P2	4,47	4,12	8,25	d (Pa, +) =
P3	4,12 4,00	4,47	8,54	$\sqrt{(1-0)^2+(z-5)^2}$
P4	4,00	3,60	8,54	= \(\sqrt{10} \approx 3,16\)
PS	5,66	3,20	0	

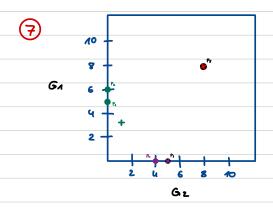


4 Berechnung Verschiebung Cluster-Zentren:

+ =
$$(\bar{x}|\bar{y})$$
 = $(5|0)$
+ = $(4,23|3,66)$
+ = $(8|8)$



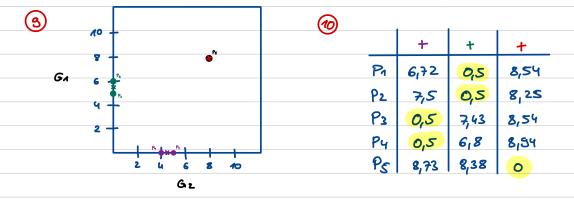
6				
		+	+	+
	Pa	7,07	2,13	8,54
	P2	7,81	2,87	8,25
	P3	0	4,35	8,54
	Pч	1	4,34	8,54
	PS.	8,5	7,68	0



8 Berechnung Verschiebung Cluster-Zentren:

$$+ = (4,510)$$

 $+ = (015,5)$
 $+ = (8|8)$



=> heine weitere Verschiebung notwendig (Konvergenz)

$$USS = (4.5-5)^{2} + (0-0)^{2} + (4.5-4)^{2} + (0-0)^{2} = 0.5$$

$$USS = 0$$

$$USS = 0.5$$