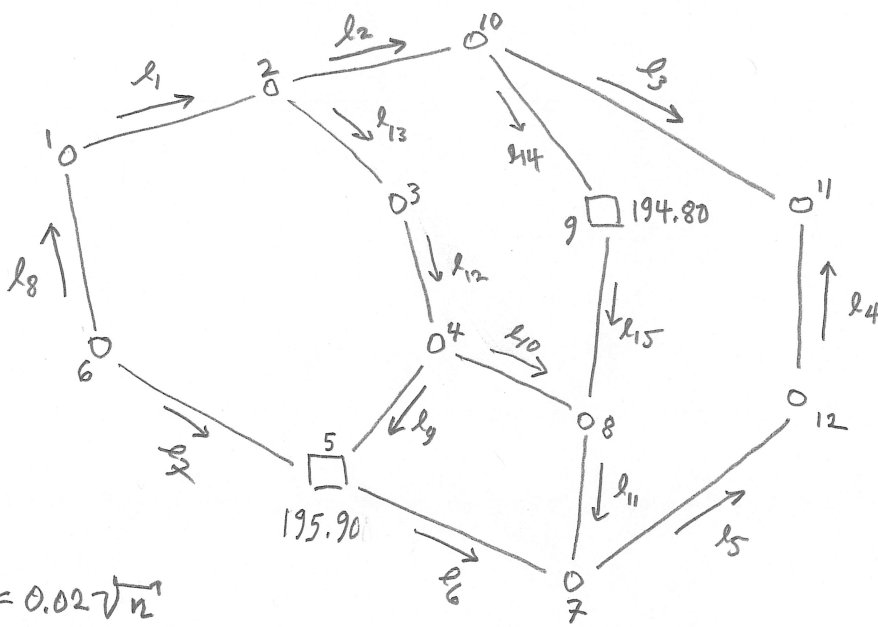


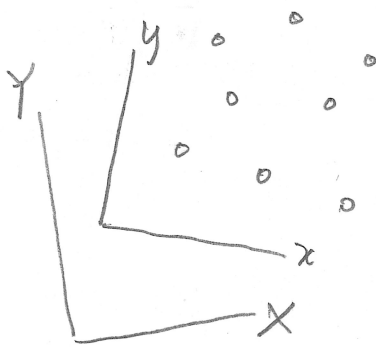
# HW2



$l$	$n$
1	3
2	5
3	8
4	4
5	9
6	6
7	7
8	6
9	6
10	6
11	5
12	2
13	7
14	5
15	10
16	3

$\sigma = 0.02\sqrt{n}$

use any LS method



$X, Y$ : constant

$x, y$ : obs

Solve the 4-parameter transformation by LS

what are  $\Theta$  &  $K$ ?

$X$	$Y$	$x$	$y$
1.0	3.0	3.83	0.83
4.0	4.0	7.54	0.46
3.0	2.0	5.58	-1.08
3.0	3.0	5.98	-0.37
3.0	5.0	7.04	2.20
4.0	4.0	7.50	0.51
5.0	2.0	7.70	-2.23
5.0	3.0	8.17	-0.98

$\sigma_x = \sigma_y = 0.1$