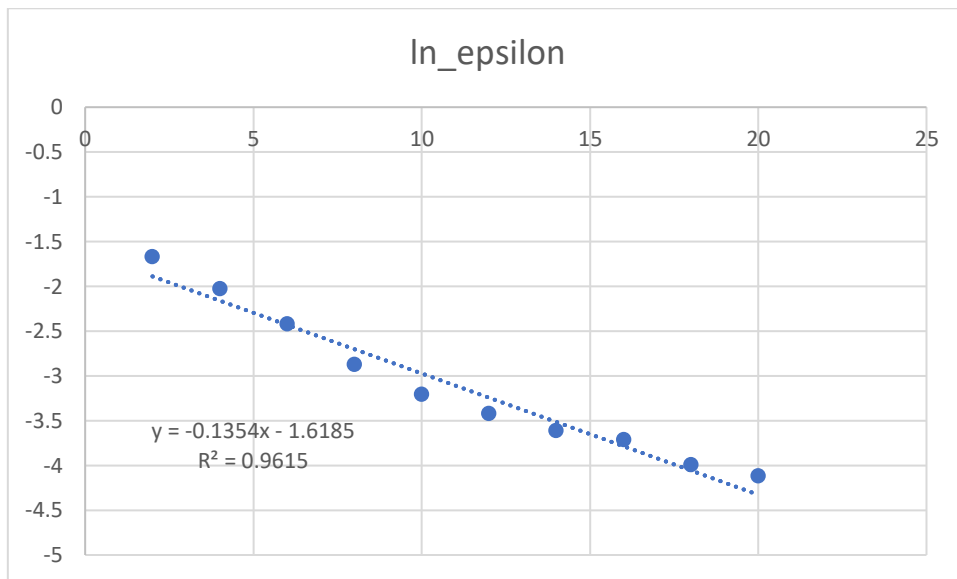


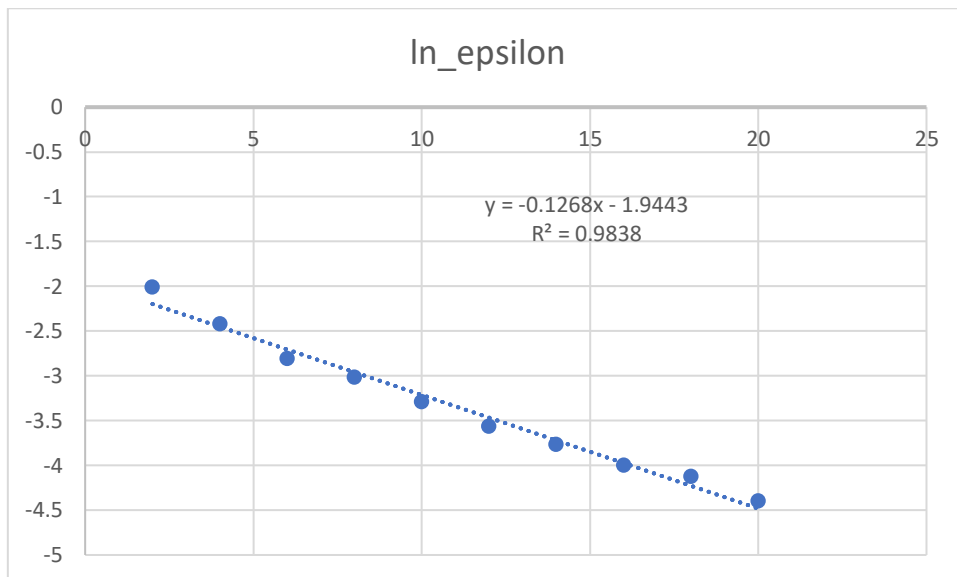
L 68.5 cm

k	phi1	phi2	phi3	phi_prom	phi_prom_rad	epsilon_k	ln_epsilon
0				50			
2	35	35	37	35.6666667	0.622500767	0.18757712	-1.67356521
4	29	30	30	29.6666667	0.517781011	0.13108039	-2.03194451
6	25	23	25	24.3333333	0.424696785	0.08883629	-2.42096008
8	20	18	20	19.3333333	0.337430322	0.05639149	-2.87543695
10	17	16	16	16.3333333	0.285070444	0.04035816	-3.20996178
12	15	14	15	14.6666667	0.255981624	0.03258478	-3.42390995
14	13	14	13	13.3333333	0.232710567	0.02695513	-3.61358167
16	12	13	13	12.6666667	0.221075039	0.02433772	-3.71572788
18	12	11	10	11	0.191986218	0.01837282	-3.99688307
20	10	11	10	10.3333333	0.180350689	0.01621915	-4.12156255



L 61, 5 cm

k	phi1	phi2	phi3	phi_prom	phi_prom:rad	epsion_k	ln_epsilon
0				40	0.698131701	0.23395556	-1.45262411
2	30	30	30	30	0.523598776	0.1339746	-2.01010508
4	25	25	23	24.33333333	0.424696785	0.08883629	-2.42096008
6	20	20	20	20	0.34906585	0.06030738	-2.80830081
8	18	18	18	18	0.314159265	0.04894348	-3.01708904
10	15	16	16	15.66666667	0.273434916	0.03715099	-3.29276493
12	14	14	13	13.66666667	0.238528331	0.02831326	-3.56442512
14	12	12	13	12.33333333	0.215257274	0.02307853	-3.76885266
16	10	11	12	11	0.191986218	0.01837282	-3.99688307
18	10	10	11	10.33333333	0.180350689	0.01621915	-4.12156255
20	9	9	9	9	0.157079633	0.01231166	-4.39720855



Colison con la varilla

L 685 mm

l,mm	phi1	phi2	phi3	phi_prom	phi_prom_rad	L (1-COS_PHI)
39	34	36	35	35	0.610865238	123.8808497
75	45	47	43	45	0.785398163	200.6318549
108	55	55	58	56	0.977384381	301.9528611
142	60	61	61	60.6666667	1.05883308	349.425543
177	69	65	67	67	1.169370599	417.349177
207	70	70	70	70	1.221730476	450.7162018
225	71	72	74	72.3333333	1.262454826	477.1170401
241	75	75	76	75.3333333	1.314814703	511.5613098
250	78	79	75	77.3333333	1.349721288	534.7941424
283	85	85	87	85.6666667	1.495165393	633.2421858

