invk2d_analytical														
Desired:		Measured:		Theoretical:		Actual:		Error:						
x	у	x	у	theta_i	theta_o	theta_i	theta_o	distance	theta_i	theta_o				
10	10	9.3	11.5	164	-137	162	-136	1.655294536	2	1				
13	16	14.5	14.1	112	-79	111	-80	2.420743687	1	1				
-15	4	-15	3.3	-91	-125	-91	-125	0.7	0	0				
-20	12	-19.05	13.3	114	47	114	46	1.610124219	0	1				
-10	-13	-8.3	-15.4	-32	-117	-28.7	-116	2.941088234	3.3	1				
-18	-5	-17.8	-5.3	-88	-97	-87	-99	0.3605551275	1	2				
16	-10	13.8	-12.5	43	-95	41	-96	3.330165161	2	1				
7	-13			50	-131	49	-130			1				
24.95	0	24.4	3	0	0	1	0	3.05	1	0				
0	24.95	1.7	24.5	90	0	90	0	1.75855054	0	0				
-24.95	0		2.4				-1							
0	-24.95	3	-24.9	-90	0	-90	2	3.000416638	0					
							Average:	2.044993654	0.9416666667	0.9166666667				
							Max:	3.330165161	3.3	2				
							Min:	0.3605551275	0	0				
Midpoint														
Robot:		Measured:		Robot:		Measured:		Robot:		Measured:		Error:		
x1	y1	x1	y1	x2	y2	x2	y2	mx	my	mx	my	distance p1	distance p2	distance mp
18.9	-0.3	18	0	11.75	-10.59	12	-8	15.33	-5.45	15	-4	0.9486832981	2.602037663	1.48707767
12.3	-7.87	12	-8	-0.05	-15.48	0	-15	6.12	-11.67	6	-11.5	0.3269556545	0.4825971405	0.208086520
-2.31	-16.11	0	-15	-16.01	-8.73	-14	-10	-9.16	-12.42	-7	-12.5	2.562849976	2.377603836	2.1614809
-15.61	-8.76	-14	-10	-17.08	13.21	-17	12	-16.35	2.23	-15.5	1	2.032166332	1.212641744	1.4951254
-16.87	12.55	-17	12	18.33	15.06	18	15	0.73	13.8	0.5	13.5	0.565154846	0.3354101966	0.37802116
											Average:	1.287162021	1.402058116	1.1459583
											Max:	2.562849976	2.602037663	2.1614809
											Min:	0.3269556545	0.3354101966	0.208086520