

invk2d_newton															
Desired:		Measured:		Theoretical:		Actual:		Error:							
x	y	x	y	theta_i	theta_o	theta_i	theta_o	distance	theta_i	theta_o					
10	10	9.7	11	164	-137	162	-136	1.044030651	2	1					
13	16	12.5	16.9	112	-79	113	-79	1.029563014	1	0					
-15	4	-14.3	5.6	61	125	59	124	1.74642492	2	1					
-20	12	-19.4	11.6	114	47	114	49	0.7211102551	0	2					
-10	-13	-12.2	-11.6	137	117	135	116	2.607680962	2	1					
-18	-5	-18.2	-7.3	-88	-97	-86	-95	2.308679276	2	2					
16	-10	14.3	-12.7	-107	95	-108	94	3.190611227	1	1					
7	-13	6.3	-13.7	-173	131	-171	130	0.9899494937	2	1					
24.95	0	24.6	-3.3	0	0	-3	0	3.318508701	3	0					
0	24.95	0.5	24.5	90	0	89	2	0.6726812024	1	2					
-24.95	0	-24.6	1.7	180	0	179	0	1.735655496	1	0					
0	-24.95	-2.8	-24.9	-90	0	-91	-1	2.800446393	1	1					
							Average:	1.847111799	1.5	1					
							Max:	3.318508701	3	2					
							Min:	0.6726812024	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	
18.68	-0.69	18	0	12.21	-9.51	12	-8	15.45	-5.1	15	-4	0.9687620967	1.524532715	1.188486432	
11.51	-9.84	12	-8	-1.78	-15.72	0	-15	4.86	-12.78	6	-11.5	1.904127097	1.920104164	1.714059509	
-2.21	-15.43	0	-15	-15.81	-9.09	-14	-10	-9.01	-12.26	-7	-12.5	2.251443981	2.025882524	2.024277649	
-16.21	-9.08	-14	-10	-17.29	12.78	-17	12	-16.75	1.85	-15.5	1	2.393846277	0.8321658489	1.511621646	
-17.99	12.74	-17	12	18.68	14.22	18	15	0.35	13.48	0.5	13.5	1.236001618	1.034794666	0.1513274595	
											Average:	1.750836214	1.467495983	1.317954539	
											Max:	2.393846277	2.025882524	2.024277649	
											Min:	0.9687620967	0.8321658489	0.1513274595	