	Test #	1	2	3	4
Experiment	Forward	0	2	4	2
	Back	-3	-2	-3	-1
	Left	25	24	22	21
	Right	-24	-23	-20	-21
Model	Forward	0	0	0	0
	Back	0	0	0	0
	Left	6.58961625	6.512398728	6.538135992	11.76349389
	Right	-31.66105188	-6.58961625	-11.64815749	-6.538135992
Difference	Forward	0	2	4	2
	Back	-3	-2	-3	-1
	Left	18.41038375	17.48760127	15.46186401	9.236506105
	Right	7.661051883	-16.41038375	-8.35184251	-14.46186401

	Test #	1	2	3	4
Experiment	Forward	1.5	1.7	1.4	1.4
	Back	-2.3	-2	-1.95	-2.4
	Left	-0.2	0	-0.15	-0.2
	Right	-0.2	-0.3	-0.3	-0.2
Model	Forward	-2.898	-2.8984448	-2.8984448	-2.8984448
	Back	2.909856	2.8984448	2.8984448	2.8984448
	Left	0	0	0	0
	Right	0	0	0	0
Difference	Forward	4.398	4.5984448	4.2984448	4.2984448
	Back	-5.209856	-4.8984448	-4.8484448	-5.2984448
	Left	-0.2	0	-0.15	-0.2
	Right	-0.2	-0.3	-0.3	-0.2

	Test #	1	2	3	4
Experiment	Forward	-0.1	0.2	-0.1	-0.5
	Back	0	0.1	0.3	0.2
	Left	0.4	0.4	0.55	0.7
	Right	0	-0.2	-0.4	0
	Forward	0.3377909	0.3397909	0.3377909	0.3397909

Model	Back	-0.3411208	-0.3377909	-0.3377909	-0.3377909
	Left	0	0	0	0
	Right	0	0	0	0
Difference	Forward	-0.4377909	-0.1397909	-0.4377909	-0.8397909
	Back	0.3411208	0.4377909	0.6377909	0.5377909
	Left	0.4	0.4	0.55	0.7
	Right	0	-0.2	-0.4	0

	Test #	1	2	3	4
Experiment	Forward	0.02	0.01	0.02	0.01
	Back	-0.02	-0.01	-0.02	-0.01
	Left	-0.67	-0.75	-0.85	-0.99
	Right	1.07	0.85	0.75	0.64
Model	Forward	0	0	0	0
	Back	0	0	0	0
	Left	-0.4492	-0.4492	-0.4492	-0.4492
	Right	0.4492	0.4492	0.4492	0.4492
Difference	Forward	0.02	0.01	0.02	0.01
	Back	-0.02	-0.01	-0.02	-0.01
	Left	-0.2208	-0.3008	-0.4008	-0.5408
	Right	0.6208	0.4008	0.3008	0.1908

Dynamics Model+

Theta (Measured)

5	6	7	8	9	10
1	0	-1	-1	3	3
-2	-3	-3	-2	-4	-3
21	23	23	21	23	23
-20	-22	-22	-20	-22	-23
0	0	0	0	0	0
0	0	0	0	0	0
6.512392998	28.03161635	41.08214534	6.538135992	6.538135992	6.538135992
-6.589621979	-18.14718338	-6.538135992	-6.563878986	-6.538135992	-6.563878986
1	0	-1	-1	3	3
-2	-3	-3	-2	-4	-3
14.487607	-5.031616352	-18.08214534	14.46186401	16.46186401	16.46186401
-13.41037802	-3.852816617	-15.46186401	-13.43612101	-15.46186401	-16.43612101

X (x is forward not backward)

5	6	7	8	9	10
1.6	1.45	1.6	1.9	1.7	1.8
-2.6	-2.05	-2.35	-2.4	-2.5	-2.4
-0.1	-1.5	-0.1	-0.1	0.1	0
-0.3	-0.25	-0.3	-0.35	-0.4	-0.2
-2.8984448	-2.8984448	-2.8984448	-2.8984448	-2.8984448	-2.8984448
2.8984448	2.8984448	2.8984448	2.8984448	2.8984448	2.8984448
0	0	0	0	0	0
0	0	0	0	0	0
4.4984448	4.3484448	4.4984448	4.7984448	4.5984448	4.6984448
-5.4984448	-4.9484448	-5.2484448	-5.2984448	-5.3984448	-5.2984448
-0.1	-1.5	-0.1	-0.1	0.1	0
-0.3	-0.25	-0.3	-0.35	-0.4	-0.2

Delta Y

5	6	7	8	9	10
-0.1	-0.1	0.1	0.1	0.2	0
0.25	0.05	0.1	0	0.1	0.15
0.6	0.7	0.6	0.6	0.5	0.7
-0.01	-0.4	-0.35	-0.5	-0.2	-0.4
0.3377909	0.3397909	0.3377909	0.3397909	0.3377909	0.3397909

-0.3377909	-0.3377909	-0.3377909	-0.3377909	-0.3377909	-0.3377909
0	0	0	0	0	0
0	0	0	0	0	0
-0.4377909	-0.4397909	-0.2377909	-0.2397909	-0.1377909	-0.3397909
0.5877909	0.3877909	0.4377909	0.3377909	0.4377909	0.4877909
0.6	0.7	0.6	0.6	0.5	0.7
-0.01	-0.4	-0.35	-0.5	-0.2	-0.4

Theta Dot

5	6	7	8	9	10
0.02	0.01	0	0.01	0.02	0
0	-0.01	-0.01	0	0.1	-0.01
-0.85	-0.64	-0.88	-0.62	-0.77	-0.7
0.94	0.33	0.59	0.77	1.34	1.3
0	0	0	0	0	0
0	0	0	0	0	0
-0.4492	-0.4492	-0.4492	-0.4492	-0.4492	-0.4492
0.4492	0.4492	0.4492	0.4492	0.4492	0.4492
0.02	0.01	0	0.01	0.02	0
0	-0.01	-0.01	0	0.1	-0.01
-0.4008	-0.1908	-0.4308	-0.1708	-0.3208	-0.2508
0.4908	-0.1192	0.1408	0.3208	0.8908	0.8508

Mean	Std Dev
1.3	1.766981104
-2.6	0.8432740427
22.6	1.349897115
-21.7	1.418136492
0	0
0	0
12.66442075	12.05198449
-10.73777969	8.270964999
1.3	1.766981104
-2.6	0.8432740427
9.935579247	11.99669726
-10.96222031	7.66438218

Mean	Std Dev
1.605	0.1707011684
-2.295	0.2204162728
-0.225	0.4578027232
-0.28	0.06749485577
-2.89840032	0.0001406581103
2.89958592	0.003608538284
0	0
0	0
4.50340032	0.1707316237
-5.19458592	0.2204745654
-0.225	0.4578027232
-0.28	0.06749485577

Mean	Std Dev
-0.03	0.2057506582
0.125	0.1006920498
0.575	0.1136515141
-0.246	0.1907412442
0.3387909	0.001054092553

-0.33812389	0.001053006838
0	0
0	0
-0.3687909	0.2059153008
0.46312389	0.1002372211
0.575	0.1136515141
-0.246	0.1907412442

Mean	Std Dev
0.012	0.007888106377
0.001	0.03541813722
-0.772	0.1192383234
0.858	0.3156932407
0	0
0	0
-0.4492	0
0.4492	0
0.012	0.007888106377
0.001	0.03541813722
-0.3228	0.1192383234
0.4088	0.3156932407

0.02475	#DIV/0!