

Values of Velocity and Acceleration computed for the Robot's circular path

Time Elapsed (seconds)	Velocity Magnitude (v_circle)	Angle (vc_theta)	Acceleration (a_circle)	Angle (ac_theta)
1	0.1274	1.403	0.0011	0.8913
1.6	0.1268	1.4055	0.0018	1.2063
2.2	0.1258	1.4072	0.0025	1.3352
2.8	0.1243	1.408	0.0033	1.4028
3.4	0.1223	1.4081	0.0041	1.4438
4	0.1198	1.4074	0.0049	1.4712
4.6	0.1169	1.4058	0.0056	1.4907
5.2	0.1135	1.4033	0.0064	1.5053
5.8	0.1097	1.3998	0.0071	1.5165
6.4	0.1055	1.3951	0.0077	1.5255
7	0.1009	1.3891	0.0084	1.5328
7.6	0.096	1.3816	0.009	1.5388
8.2	0.0906	1.3722	0.0096	1.5439
8.8	0.085	1.3607	0.0101	1.5482
9.4	0.079	1.3463	0.0106	1.552
10	0.0727	1.3284	0.0111	1.5553
10.6	0.0663	1.3058	0.0115	1.5582
11.2	0.0596	1.2768	0.0119	1.5609
11.8	0.0528	1.2388	0.0122	1.5633
12.4	0.0459	1.1878	0.0125	1.5655
13	0.039	1.1168	0.0127	1.5675
13.6	0.0323	1.0135	0.0129	1.5694
14.2	0.026	0.8556	0.0131	-1.5703
14.8	0.0208	0.6057	0.0131	-1.5686
15.4	0.0175	0.2269	0.0132	-1.5669
16	0.0176	-0.2265	0.0131	-1.5652
16.6	0.0208	-0.6031	0.0131	-1.5636
17.2	0.0261	-0.8512	0.0129	-1.5619
17.8	0.0324	-1.008	0.0127	-1.5602
18.4	0.0391	-1.1107	0.0125	-1.5585
19	0.046	-1.1814	0.0122	-1.5566
19.6	0.0529	-1.2322	0.0119	-1.5547
20.2	0.0597	-1.2702	0.0115	-1.5526
20.8	0.0664	-1.2992	0.0111	-1.5504
21.4	0.0729	-1.3219	0.0106	-1.5479
22	0.0791	-1.34	0.0101	-1.5452
22.6	0.0851	-1.3546	0.0096	-1.5421

23.2	0.0907	-1.3664	0.009	-1.5386
23.8	0.0961	-1.3761	0.0084	-1.5344
24.4	0.101	-1.3839	0.0077	-1.5295
25	0.1056	-1.3903	0.0071	-1.5236
25.6	0.1098	-1.3954	0.0063	-1.5162
26.2	0.1136	-1.3995	0.0056	-1.5068
26.8	0.117	-1.4026	0.0049	-1.4942
27.4	0.1199	-1.4048	0.0041	-1.4768
28	0.1223	-1.4062	0.0033	-1.4507
28.6	0.1243	-1.4069	0.0025	-1.4077
29.2	0.1258	-1.4069	0.0017	-1.3235
29.8	0.1268	-1.4063	0.0009	-1.0943
30.4	0.1273	-1.4049	0.0004	0
31	0.1274	-1.4029	0.0009	1.0764
31.6	0.1269	-1.4002	0.0017	1.3021
32.2	0.126	-1.3967	0.0025	1.3853
32.8	0.1246	-1.3925	0.0033	1.428
33.4	0.1227	-1.3874	0.0041	1.4537
34	0.1204	-1.3813	0.0049	1.4709
34.6	0.1176	-1.3742	0.0056	1.4831
35.2	0.1143	-1.366	0.0064	1.4923
35.8	0.1107	-1.3563	0.0071	1.4993
36.4	0.1066	-1.3451	0.0077	1.5049
37	0.1022	-1.332	0.0084	1.5093
37.6	0.0974	-1.3167	0.009	1.513
38.2	0.0922	-1.2987	0.0096	1.516
38.8	0.0868	-1.2774	0.0102	1.5186
39.4	0.0811	-1.2519	0.0107	1.5207
40	0.0752	-1.2212	0.0111	1.5224
40.6	0.0691	-1.1838	0.0115	1.5239
41.2	0.0628	-1.1375	0.0119	1.5251
41.8	0.0566	-1.0792	0.0122	1.5261
42.4	0.0504	-1.0047	0.0125	1.5269
43	0.0445	-0.9078	0.0128	1.5276
43.6	0.039	-0.78	0.0129	1.528
44.2	0.0342	-0.6114	0.0131	1.5283
44.8	0.0307	-0.3949	0.0131	1.5285
45.4	0.029	-0.1366	0.0132	1.5285
46	0.0293	0.1351	0.0131	1.5284
46.6	0.0317	0.3827	0.0131	1.5281
47.2	0.0356	0.5845	0.0129	1.5276

47.8	0.0407	0.7396	0.0128	1.527
48.4	0.0464	0.8568	0.0125	1.5263
49	0.0525	0.9457	0.0122	1.5253
49.6	0.0588	1.0143	0.0119	1.5241
50.2	0.0651	1.0679	0.0115	1.5227
50.8	0.0714	1.1105	0.0111	1.521
51.4	0.0776	1.1449	0.0107	1.519
52	0.0835	1.1728	0.0102	1.5166
52.6	0.0893	1.1958	0.0096	1.5137
53.2	0.0948	1.2148	0.009	1.5103
53.8	0.1	1.2306	0.0084	1.5061
54.4	0.1048	1.2437	0.0078	1.5011
55	0.1093	1.2545	0.0071	1.4947
55.6	0.1135	1.2634	0.0064	1.4867
56.2	0.1172	1.2706	0.0056	1.4763
56.8	0.1205	1.2763	0.0049	1.4624
57.4	0.1234	1.2807	0.0041	1.4427
58	0.1258	1.2839	0.0033	1.4133
58.6	0.1278	1.2859	0.0025	1.3647
59.2	0.1293	1.2868	0.0017	1.2701
59.8	0.1303	1.2867	0.001	1.0205
60.4	0.1309	1.2855	N/A	N/A
61	N/A	N/A	N/A	N/A