

## Coarse at 0.6% functions:

Drop_Number	Zero_Height_Time	Trendline_Function	R_squared
1	1572.1	{'y = -0.0000000020x <sup>3</sup> + 0.00000x <sup>2</sup> + -0.00358x + 1.934'}	0.92308
2	NaN	{'No real root greater than min(x)'}	0.98248
3	1265.2	{'y = -0.0000000034x <sup>3</sup> + 0.00001x <sup>2</sup> + -0.00460x + 2.387'}	0.96412
4	31.499	{'y = 0.0000880035x <sup>3</sup> + -0.00589x <sup>2</sup> + 0.01873x + 2.500'}	1
5	NaN	{'No real root greater than min(x)'}	0.96253
6	2031.6	{'y = -0.0000000018x <sup>3</sup> + 0.00001x <sup>2</sup> + -0.00489x + 2.908'}	0.97097
7	NaN	{'No drop data available'}	NaN
8	NaN	{'No drop data available'}	NaN
9	1010	{'y = -0.0000000023x <sup>3</sup> + 0.00000x <sup>2</sup> + -0.00389x + 2.862'}	0.97705
10	179.34	{'y = -0.0000013153x <sup>3</sup> + 0.00026x <sup>2</sup> + -0.01979x + 2.687'}	0.9781
11	232.48	{'y = 0.0000000419x <sup>3</sup> + -0.00006x <sup>2</sup> + 0.00119x + 2.486'}	0.99754
12	NaN	{'No drop data available'}	NaN
13	25.5	{'y = 0.0001402957x <sup>3</sup> + -0.00776x <sup>2</sup> + 0.03157x + 1.917'}	0.97268
14	34.875	{'y = -0.0002965072x <sup>3</sup> + 0.01608x <sup>2</sup> + -0.26993x + 2.437'}	0.93042
15	101.95	{'y = -0.0000044235x <sup>3</sup> + 0.00077x <sup>2</sup> + -0.05282x + 2.029'}	0.94978
16	26.02	{'y = -0.0001112584x <sup>3</sup> + 0.00158x <sup>2</sup> + -0.05206x + 2.245'}	0.99521

## Coarse at 0.7% functions:

Drop_Number	Zero_Height_Time	Trendline_Function	R_squared
1	280.78	{'y = -0.0000002990x <sup>3</sup> + 0.00013x <sup>2</sup> + -0.01935x + 1.891'}	0.93018
2	730.54	{'y = -0.0000000115x <sup>3</sup> + 0.00001x <sup>2</sup> + -0.00398x + 2.109'}	0.91705
3	212.71	{'y = -0.0000008468x <sup>3</sup> + 0.00031x <sup>2</sup> + -0.03850x + 2.317'}	0.95454
4	101.21	{'y = -0.0000116720x <sup>3</sup> + 0.00155x <sup>2</sup> + -0.06062x + 2.362'}	0.99388
5	399.77	{'y = 0.0000000024x <sup>3</sup> + -0.00000x <sup>2</sup> + -0.00310x + 1.463'}	0.86813
6	156.5	{'y = -0.0000018117x <sup>3</sup> + 0.00047x <sup>2</sup> + -0.04145x + 2.030'}	0.9107
7	118.74	{'y = -0.0000019007x <sup>3</sup> + 0.00005x <sup>2</sup> + -0.00127x + 2.566'}	0.99559
8	NaN	{'No drop data available'}	NaN
9	287.99	{'y = -0.0000003612x <sup>3</sup> + 0.00016x <sup>2</sup> + -0.02146x + 1.685'}	0.87351
10	339.44	{'y = -0.0000003070x <sup>3</sup> + 0.00013x <sup>2</sup> + -0.01600x + 1.979'}	0.95859
11	217.54	{'y = -0.0000006285x <sup>3</sup> + 0.00023x <sup>2</sup> + -0.02923x + 2.072'}	0.95611
12	178.37	{'y = -0.0000003089x <sup>3</sup> + 0.00012x <sup>2</sup> + -0.02299x + 2.170'}	0.99598
13	NaN	{'No drop data available'}	NaN
14	NaN	{'No drop data available'}	NaN
15	NaN	{'No drop data available'}	NaN
16	NaN	{'No drop data available'}	NaN

Coarse at 0.8% functions:

Drop_Number	Zero_Height_Time	Trendline_Function	R_squared
1	511.94	{'y = 0.0000000223x^3 + -0.00002x^2 + 0.00015x + 1.931' }	0.98442
2	719.16	{'y = -0.0000000050x^3 + 0.00001x^2 + -0.00389x + 1.661' }	0.93493
3	579.11	{'y = -0.0000000372x^3 + 0.00003x^2 + -0.00993x + 2.110' }	0.92532
4	NaN	{'No drop data available' }	NaN
5	3142.7	{'y = -0.0000000001x^3 + 0.00000x^2 + -0.00075x + 1.824' }	0.9569
6	732.02	{'y = 0.0000000055x^3 + -0.00000x^2 + -0.00235x + 2.150' }	0.98849
7	2366	{'y = -0.0000000005x^3 + 0.00000x^2 + -0.00126x + 2.192' }	0.96529
8	289.85	{'y = -0.0000002011x^3 + 0.00009x^2 + -0.01510x + 1.942' }	0.99477
9	12641	{'y = -0.0000000000x^3 + 0.00000x^2 + -0.00062x + 2.241' }	0.995
10	3300.6	{'y = -0.0000000001x^3 + 0.00000x^2 + -0.00089x + 2.503' }	0.99303
11	3054.5	{'y = -0.0000000002x^3 + 0.00000x^2 + -0.00110x + 2.374' }	0.9715
12	1802.8	{'y = -0.0000000013x^3 + 0.00000x^2 + -0.00261x + 2.250' }	0.96879
13	2548.6	{'y = -0.0000000003x^3 + 0.00000x^2 + -0.00158x + 1.954' }	0.93986
14	1670.5	{'y = -0.0000000011x^3 + 0.00000x^2 + -0.00331x + 1.839' }	0.94324
15	2600	{'y = -0.0000000004x^3 + 0.00000x^2 + -0.00166x + 2.089' }	0.86341
16	1669.1	{'y = -0.0000000019x^3 + 0.00001x^2 + -0.00489x + 2.216' }	0.97207

Medium at 0.6% functions:

Drop_Number	Zero_Height_Time	Trendline_Function	R_squared
1	NaN	{'No real root greater than min(x)' }	0.98128
2	NaN	{'No real root greater than min(x)' }	0.98639
3	6758.1	{'y = -0.0000000000x^3 + -0.00000x^2 + -0.00033x + 3.008' }	0.99643
4	3369.8	{'y = -0.0000000001x^3 + 0.00000x^2 + -0.00125x + 3.172' }	0.98943
5	1939.9	{'y = -0.0000000000x^3 + -0.00000x^2 + -0.00133x + 2.917' }	0.9963
6	1952.1	{'y = -0.0000000012x^3 + 0.00000x^2 + -0.00244x + 2.713' }	0.98645
7	1465.1	{'y = 0.0000000000x^3 + -0.00000x^2 + -0.00160x + 2.849' }	0.98582
8	1241.5	{'y = 0.0000000002x^3 + 0.00000x^2 + -0.00286x + 2.745' }	0.98049
9	511.28	{'y = 0.0000000309x^3 + -0.00003x^2 + 0.00122x + 2.785' }	0.99277
10	645.75	{'y = 0.0000000012x^3 + -0.00000x^2 + -0.00461x + 2.951' }	0.995
11	638.55	{'y = -0.0000000051x^3 + 0.00001x^2 + -0.00699x + 3.140' }	0.99759
12	310.89	{'y = 0.0000000610x^3 + -0.00004x^2 + -0.00166x + 2.858' }	0.988
13	438.11	{'y = -0.0000000935x^3 + 0.00007x^2 + -0.01832x + 2.504' }	0.98761
14	448.96	{'y = -0.000000090x^3 + 0.00000x^2 + -0.00428x + 2.123' }	0.98692
15	312.91	{'y = -0.0000004432x^3 + 0.00020x^2 + -0.02863x + 2.611' }	0.9912
16	88.642	{'y = -0.0000016509x^3 + 0.00030x^2 + -0.04556x + 2.802' }	0.9999

Medium at 0.7% functions:

Drop_Number	Zero_Height_Time	Trendline_Function	R_squared
1	NaN	{'No real root greater than min(x)'} {'y = -0.0000000001x^3 + 0.00000x^2 + -0.00075x + 2.789'}	0.99218
2	2874	{'y = -0.0000000001x^3 + 0.00000x^2 + -0.00078x + 2.414'}	0.96848
3	3424.9	{'y = -0.0000000001x^3 + 0.00000x^2 + -0.00082x + 2.538'}	0.96609
4	3299.1	{'y = -0.0000000001x^3 + 0.00000x^2 + -0.00102x + 2.724'}	0.99101
5	3926.8	{'y = -0.0000000001x^3 + 0.00000x^2 + -0.00082x + 2.538'}	0.99425
6	4168.4	{'y = -0.0000000001x^3 + 0.00000x^2 + -0.00120x + 2.581'}	0.98801
7	3956.4	{'y = -0.0000000001x^3 + 0.00000x^2 + -0.00164x + 3.050'}	0.98324
8	3845.2	{'y = -0.0000000001x^3 + 0.00000x^2 + -0.00105x + 2.263'}	0.97416
9	1935	{'y = -0.00000000010x^3 + 0.00000x^2 + -0.00284x + 2.292'}	0.96921
10	1736	{'y = -0.0000000014x^3 + 0.00000x^2 + -0.00235x + 2.283'}	0.99061
11	940.72	{'y = -0.0000000031x^3 + 0.00000x^2 + -0.00390x + 2.370'}	0.98284
12	1072.4	{'y = 0.000000002x^3 + -0.00000x^2 + -0.00226x + 2.757'}	0.97282
13	NaN	{'No drop data available'}	NaN
14	NaN	{'No drop data available'}	NaN
15	NaN	{'No drop data available'}	NaN
16	NaN	{'No drop data available'}	NaN

Medium at 0.8% functions:

Drop_Number	Zero_Height_Time	Trendline_Function	R_squared
1	NaN	{'No real root greater than min(x)'} {'y = -0.0000000000x^3 + 0.00000x^2 + -0.00058x + 2.965'}	0.97203
2	5581.1	{'y = -0.0000000001x^3 + 0.00000x^2 + -0.00071x + 2.882'}	0.96365
3	4594.5	{'y = -0.0000000001x^3 + 0.00000x^2 + -0.00041x + 2.813'}	0.96586
4	5846.3	{'y = -0.0000000000x^3 + 0.00000x^2 + -0.00041x + 2.813'}	0.971
5	1733.9	{'y = -0.0000000015x^3 + 0.00000x^2 + -0.00490x + 2.946'}	0.98789
6	2516.2	{'y = -0.0000000001x^3 + 0.00000x^2 + -0.00151x + 2.668'}	0.99262
7	2286.4	{'y = -0.0000000003x^3 + 0.00000x^2 + -0.00179x + 2.345'}	0.99425
8	3005.5	{'y = -0.0000000002x^3 + 0.00000x^2 + -0.00150x + 3.037'}	0.99163
9	1425.3	{'y = -0.0000000025x^3 + 0.00001x^2 + -0.00394x + 2.596'}	0.99782
10	1130.4	{'y = -0.0000000022x^3 + 0.00000x^2 + -0.00343x + 2.466'}	0.98858
11	1188.1	{'y = -0.0000000029x^3 + 0.00001x^2 + -0.00615x + 3.086'}	0.99298
12	1469	{'y = -0.0000000013x^3 + 0.00000x^2 + -0.00347x + 2.676'}	0.97815
13	623.43	{'y = -0.0000000289x^3 + 0.00003x^2 + -0.01240x + 3.236'}	0.99598
14	NaN	{'No real root greater than min(x)'} {'y = -0.0000000045x^3 + 0.00001x^2 + -0.00638x + 3.126'}	0.99126
15	910.77	{'y = -0.0000000045x^3 + 0.00001x^2 + -0.00638x + 3.126'}	0.99739
16	NaN	{'No drop data available'}	NaN

Fine at 0.6% functions:

Drop_Number	Zero_Height_Time	Trendline_Function	R_squared
1	101.09	{ 'y = -0.0000049443x <sup>3</sup> + 0.00052x <sup>2</sup> + -0.02762x + 2.591' }	0.99192
2	49.778	{ 'y = -0.0000240437x <sup>3</sup> + 0.00090x <sup>2</sup> + -0.04483x + 2.971' }	0.99668
3	53.519	{ 'y = -0.0000339490x <sup>3</sup> + 0.00162x <sup>2</sup> + -0.04885x + 3.185' }	0.99737
4	28.163	{ 'y = -0.0001953550x <sup>3</sup> + 0.00335x <sup>2</sup> + -0.04232x + 2.899' }	0.99892
5	69.702	{ 'y = -0.0000099517x <sup>3</sup> + 0.00058x <sup>2</sup> + -0.03208x + 2.791' }	0.99542
6	52.787	{ 'y = -0.0000163579x <sup>3</sup> + 0.00020x <sup>2</sup> + -0.01843x + 2.829' }	0.99566
7	38.22	{ 'y = -0.0000098462x <sup>3</sup> + -0.00149x <sup>2</sup> + -0.00065x + 2.755' }	0.99825
8	28.01	{ 'y = -0.0000339745x <sup>3</sup> + -0.00047x <sup>2</sup> + -0.05302x + 2.600' }	1
9	10.957	{ 'y = -0.0028774691x <sup>3</sup> + 0.02197x <sup>2</sup> + -0.13261x + 2.600' }	0.99685
10	9.5372	{ 'y = -0.0005167337x <sup>3</sup> + -0.00722x <sup>2</sup> + -0.18775x + 2.895' }	0.99939
11	8.92	{ 'y = 0.0071997721x <sup>3</sup> + -0.11087x <sup>2</sup> + 0.10335x + 2.790' }	0.98521
12	15.858	{ 'y = -0.0004095670x <sup>3</sup> + 0.00231x <sup>2</sup> + -0.12153x + 2.980' }	0.99698
13	NaN	{ 'No drop data available' }	NaN
14	NaN	{ 'No drop data available' }	NaN
15	NaN	{ 'No drop data available' }	NaN
16	NaN	{ 'No drop data available' }	NaN

Fine at 0.7% functions:

Drop_Number	Zero_Height_Time	Trendline_Function	R_squared
1	39.123	{ 'y = -0.0000010041x <sup>3</sup> + -0.00109x <sup>2</sup> + -0.02720x + 2.798' }	0.99903
2	37.028	{ 'y = -0.0000311126x <sup>3</sup> + 0.00045x <sup>2</sup> + -0.05016x + 2.813' }	0.9979
3	48.978	{ 'y = 0.0000120928x <sup>3</sup> + -0.00147x <sup>2</sup> + -0.00966x + 2.583' }	0.98927
4	24.654	{ 'y = -0.0004981589x <sup>3</sup> + 0.01237x <sup>2</sup> + -0.12390x + 2.999' }	0.99947
5	64.097	{ 'y = -0.0000326470x <sup>3</sup> + 0.00207x <sup>2</sup> + -0.03851x + 2.556' }	0.9491
6	55.655	{ 'y = -0.0000187114x <sup>3</sup> + 0.00094x <sup>2</sup> + -0.04247x + 2.664' }	0.99606
7	50.317	{ 'y = -0.0000554269x <sup>3</sup> + 0.00298x <sup>2</sup> + -0.06263x + 2.666' }	0.98182
8	30.729	{ 'y = -0.0003398865x <sup>3</sup> + 0.01111x <sup>2</sup> + -0.12140x + 3.106' }	0.98831
9	16.313	{ 'y = 0.0003844782x <sup>3</sup> + -0.01509x <sup>2</sup> + -0.01530x + 2.597' }	0.99905
10	12.232	{ 'y = -0.0008117901x <sup>3</sup> + 0.00746x <sup>2</sup> + -0.18254x + 2.603' }	0.99997
11	13.769	{ 'y = 0.0000818067x <sup>3</sup> + -0.01659x <sup>2</sup> + 0.02392x + 2.603' }	0.99983
12	18.835	{ 'y = -0.0001737273x <sup>3</sup> + 0.00106x <sup>2</sup> + -0.10948x + 2.845' }	0.9972
13	22.962	{ 'y = -0.0004119493x <sup>3</sup> + 0.00809x <sup>2</sup> + -0.07845x + 2.524' }	0.99865
14	18.978	{ 'y = -0.0003316495x <sup>3</sup> + 0.00115x <sup>2</sup> + -0.04983x + 2.799' }	0.99999
15	22.042	{ 'y = -0.0000927123x <sup>3</sup> + -0.00178x <sup>2</sup> + -0.04264x + 2.796' }	0.99984
16	NaN	{ 'No drop data available' }	NaN

Fine at 0.8% functions:

Drop_Number	Zero_Height_Time	Trendline_Function	R_squared
1	479.21	{ 'y = -0.0000000346x <sup>3</sup> + 0.00001x <sup>2</sup> + -0.00216x + 2.892' }	0.99722
2	463.06	{ 'y = -0.0000000105x <sup>3</sup> + -0.00001x <sup>2</sup> + -0.00148x + 3.018' }	0.99569
3	367.56	{ 'y = -0.00000001407x <sup>3</sup> + 0.00005x <sup>2</sup> + -0.00822x + 3.148' }	0.99699
4	482.31	{ 'y = 0.0000000101x <sup>3</sup> + -0.00001x <sup>2</sup> + -0.00227x + 3.174' }	0.99867
5	888.06	{ 'y = 0.0000000054x <sup>3</sup> + -0.00001x <sup>2</sup> + 0.00077x + 2.759' }	0.97214
6	529.74	{ 'y = -0.0000000020x <sup>3</sup> + -0.00000x <sup>2</sup> + -0.00396x + 3.253' }	0.9976
7	518.02	{ 'y = -0.0000000017x <sup>3</sup> + -0.00000x <sup>2</sup> + -0.00280x + 2.894' }	0.99731
8	756.09	{ 'y = 0.0000000006x <sup>3</sup> + -0.00000x <sup>2</sup> + -0.00288x + 3.089' }	0.98937
9	6.3114	{ 'y = -0.0008681974x <sup>3</sup> + -0.02589x <sup>2</sup> + -0.29011x + 3.080' }	0.99726
10	5.6759	{ 'y = 0.0146372279x <sup>3</sup> + -0.17104x <sup>2</sup> + 0.00840x + 2.786' }	0.99715
11	5.3393	{ 'y = -0.0007307657x <sup>3</sup> + -0.08401x <sup>2</sup> + 0.00122x + 2.500' }	0.99998
12	11.129	{ 'y = -0.0040640049x <sup>3</sup> + 0.04490x <sup>2</sup> + -0.23033x + 2.604' }	0.99936
13	50.03	{ 'y = -0.0000343334x <sup>3</sup> + 0.00186x <sup>2</sup> + -0.06300x + 2.805' }	0.99818
14	42.995	{ 'y = -0.0000363414x <sup>3</sup> + 0.00020x <sup>2</sup> + -0.00365x + 2.679' }	0.99807
15	72.671	{ 'y = -0.0000167897x <sup>3</sup> + 0.00145x <sup>2</sup> + -0.05341x + 2.677' }	0.99742
16	70.66	{ 'y = -0.0000170594x <sup>3</sup> + 0.00114x <sup>2</sup> + -0.03293x + 2.635' }	0.99012