

$$\text{Height} = 2.13 t^2 - 0.0013 t^4 + 0.000034 t^{4.751}$$

ORIGIN := 1  


i := 1 .. 32

t<sub>1</sub> := 0

t<sub>i+1</sub> := t<sub>i</sub> + 2

	( 0 )		( 0 )
	2		8.5001
	4		33.7719
	6		75.1644
	8		131.659
	10		201.9164
	12		284.3201
	14		377.0176
	16		477.9585
	18		584.9321
	20		695.6027
	22	i := 1 .. 33	807.5448
	24	h <sub>i</sub> := 2.13 · (t <sub>i</sub> ) <sup>2</sup> - 0.0013 · (t <sub>i</sub> ) <sup>4</sup> + 0.000034 · (t <sub>i</sub> ) <sup>4.751</sup>	918.2763
	26		1025.2917
	28		1126.0943
	30		1218.2273
t =	32		h = 1299.3051
	34		1367.0435
	36		1419.2895
	38		1454.0505
	40		1469.5236
	42		1464.1241
	44		1436.5132
	46		1385.6264
	48		1310.7009
	50		1211.3024
	52		1087.3525
	54		939.1549
	56		767.422
	58		573.3009
	60		358.3995
	62		124.8116
	( 64 )		( -124.8571 )

last(t) = 33

last(h) = 33

$$F(x) := \begin{pmatrix} x \\ x^2 \\ x^3 \\ x^4 \end{pmatrix}$$

$$c := \text{linfit}(t, h, F)$$

$$c = \begin{pmatrix} -10.357 \\ 3.654 \\ -0.0738 \\ 0.0003 \end{pmatrix}$$

$$hr := c_1 \cdot t_i + c_2 \cdot (t_i)^2 + c_3 \cdot (t_i)^3 + c_4 \cdot (t_i)^4$$

- 0
- 6.6841
- 12.3855
- 53.8336
- 114.3971
- 190.9249
- 280.378
- 379.8293
- 486.4638
- 597.5788
- 710.5834
- 822.9987
- 932.458
- 1036.7067
- 1133.6021
- 1221.1136
- hr = 1297.3226
- 1360.4227
- 1408.7195
- 1440.6306
- 1454.6856
- 1449.5262
- 1423.9062
- 1376.6915
- 1306.8599
- 1213.5012
- 1095.8176
- 953.123
- 784.8435
- 590.5172
- 369.7942
- 122.4369
- (-151.6805)



