

Calculation #1. Thu Dec 28 11:37:41 EST 2023

Entered number of coefficients of Pade function is: 3

Required error of approximation is: 0.01

Probability function parameter beta=2.5087905 eta=1.0574883

Calculated correlation coefficient is 0.9978151431275125

Coefficient of determination is 0.9906786098460901

Maximum error is 0.12417020305677487 at x=1.89133269927662

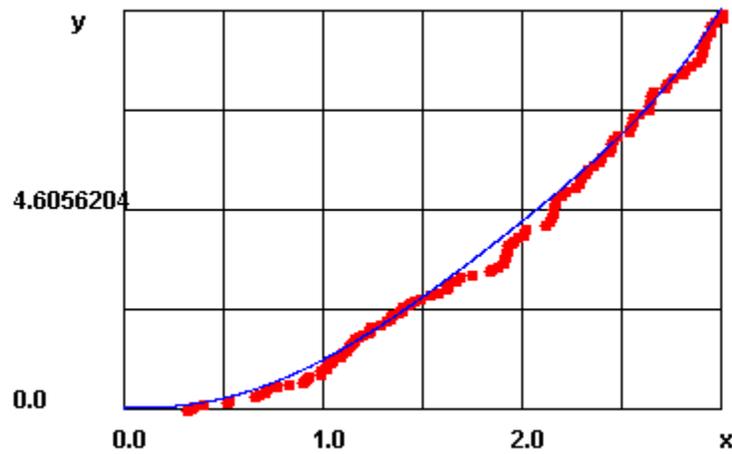
Standard deviation (residual error) is 0.1766787910431362

Number of iterations without significant changing of Standard Deviation is 1

Approximation formula:

$$\left(\frac{x}{1.0574883}\right)^{2.5087905} (1.5663906 - 0.3242146X + 0.029424906X^2) / (1.0),$$

where $X = x^{1.55}$

**Given and calculated data:**

x-coordinates	Given y-coordinates	Calculated y-coordinates
0.30547532	0.025	0.067232676
0.32701576	0.075	0.07947352
0.33972937	0.125	0.08725834
0.3826127	0.175	0.1166537
0.504847	0.225	0.22803792
0.515888	0.275	0.24016432
0.64449286	0.325	0.40703428
0.6669301	0.375	0.44097707
0.69384474	0.425	0.48357016

0.6940319	0.475	0.48387346
0.7022357	0.525	0.4972656
0.7506712	0.575	0.58015597
0.8183352	0.625	0.7067193
0.8820612	0.675	0.83704937
0.899502	0.725	0.8745445
0.9011288	0.775	0.8780812
0.9109297	0.825	0.89952886
0.9751159	0.875	1.0458403
0.9761517	0.925	1.0482831
1.0007546	0.975	1.1070428
1.0065395	1.025	1.1210635
1.0083805	1.075	1.1255417
1.0295691	1.125	1.1776398
1.0327276	1.175	1.1854928
1.0357739	1.225	1.193088
1.0723549	1.275	1.285897
1.0757483	1.325	1.2946539
1.0834813	1.375	1.3147016
1.1058824	1.425	1.3734891
1.1195583	1.475	1.4098918
1.1202298	1.525	1.411689
1.1385429	1.575	1.4610553
1.1463956	1.625	1.4824291
1.1464037	1.675	1.4824512
1.1687003	1.725	1.5437983
1.1863623	1.775	1.5930715
1.2142667	1.825	1.6721036
1.2221786	1.875	1.6947702
1.2248591	1.925	1.702475
1.2262162	1.975	1.7063805

1.270123	2.025	1.8344663
1.309914	2.075	1.9533209
1.3209994	2.125	1.9868805
1.3238691	2.175	1.995599
1.3394235	2.225	2.0430737
1.3664339	2.275	2.1263657
1.3810526	2.325	2.171883
1.3851789	2.375	2.1847851
1.3853351	2.425	2.1852736
1.4114641	2.475	2.267518
1.4224712	2.525	2.3024368
1.4497856	2.575	2.3897605
1.4743646	2.625	2.4691286
1.5272754	2.6916666	2.642366
1.5678736	2.7583334	2.7773454
1.607486	2.825	2.9106355
1.6114243	2.8916667	2.923969
1.615991	2.9583333	2.9394476
1.653084	3.025	3.065871
1.6766517	3.0916667	3.1468184
1.730245	3.1583333	3.3325934
1.822572	3.225	3.65781
1.8325403	3.2916667	3.6932971
1.8627349	3.3583333	3.8012278
1.8913327	3.425	3.9040573
1.8935376	3.4916666	3.9120102
1.9006423	3.5583334	3.9376597
1.9026499	3.625	3.9449143
1.9117709	3.6916666	3.9779112
1.9159827	3.7583334	3.993169
1.9170464	3.825	3.9970245

1.9336027	3.8916667	4.057142
1.9441155	3.9583333	4.095421
1.9616029	4.025	4.1592827
1.9923576	4.0916667	4.272174
2.002648	4.1916666	4.310117
2.1012206	4.2916665	4.6782727
2.1235766	4.391667	4.763074
2.1343007	4.491667	4.803942
2.140178	4.5916667	4.8263936
2.141004	4.6916666	4.8295536
2.152223	4.7916665	4.872531
2.1579008	4.891667	4.8943367
2.1845722	4.991667	4.9972944
2.2049901	5.0916667	5.0767236
2.2556264	5.1916666	5.2762246
2.2710304	5.2916665	5.337687
2.2814603	5.391667	5.3795233
2.3048625	5.491667	5.4740763
2.3142238	5.5916667	5.5121746
2.3432496	5.6916666	5.631364
2.376238	5.7916665	5.7689176
2.3858132	5.891667	5.809291
2.4261298	5.991667	5.981674
2.4319775	6.0916667	6.007015
2.434415	6.1916666	6.0176053
2.4482124	6.2916665	6.077847
2.460178	6.391667	6.130516
2.5298522	6.491667	6.445763
2.5374312	6.5916667	6.4810114
2.5401783	6.6916666	6.4938364
2.5431972	6.7916665	6.507962

2.5723243	6.891667	6.645965
2.6223862	6.991667	6.890963
2.6295164	7.0916667	6.926722
2.6318936	7.1916666	6.938694
2.6360369	7.2916665	6.9596224
2.6494918	7.391667	7.0281262
2.7040522	7.491667	7.314954
2.7115383	7.5916667	7.3555117
2.741229	7.6916666	7.519447
2.7962735	7.7916665	7.837351
2.8097267	7.891667	7.9180264
2.8377504	7.991667	8.090117
2.8693483	8.091666	8.291068
2.883892	8.191667	8.386158
2.8957605	8.291667	8.46502
2.8987668	8.391666	8.485181
2.9055252	8.491667	8.530779
2.9090514	8.591666	8.554723
2.9169638	8.691667	8.608837
2.931623	8.791667	8.710535
2.9394205	8.891666	8.7654085
2.9551613	8.991667	8.877877
2.990264	9.091666	9.137163
2.9952216	9.191667	9.174763