Calculation #2. Thu Jan 11 10:50:54 EST 2024

Entered number of coefficients of Pade function is: 5
Required error of approximation is: 0.01
Probability function parameter beta=2.0404139 eta=1.0431365
Calculated correlation coefficient is 0.9998009792440604
Coefficient of determination is 0.9996658781294799
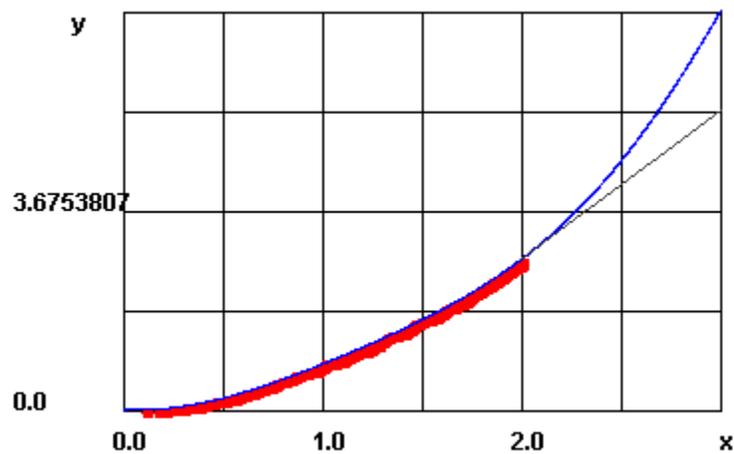Maximum error is 0.03442081447507269 at x=1.45346888328358
Standard deviation (residual error) is 0.016067707661711172
Number of iterations without significant changing of Standard Deviation is 0

Approximation formula:

$$(x/1.0431365)^{2.0404139}(0.088154934+3.2770913X-3.9587612X^2+1.7845159X^3-0.2693846X^4)/(1.0),$$
$$\text{where } X=x^{0.75}$$

Given and calculated data:

x-coordinates	Given y-coordinates	Calculated y-coordinates
0.105790645	0.005	0.005353079
0.1651673	0.015	0.016319823
0.2025535	0.025	0.026946042
0.2088825	0.035	0.02904348
0.24001628	0.045	0.040641807
0.27288687	0.055	0.055212002
0.2981342	0.065	0.068023406
0.302681	0.075	0.07047934
0.32601187	0.085	0.08378927

0.35212442	0.095	0.10007498
0.37302265	0.105	0.11414601
0.3768537	0.115	0.11682398
0.38702604	0.125	0.124080926
0.3968007	0.135	0.13125269
0.40120953	0.145	0.13455059
0.41963917	0.155	0.14875542
0.43825606	0.165	0.16377941
0.4416985	0.175	0.16663045
0.45975837	0.185	0.18195397
0.48069468	0.195	0.20047198
0.49794468	0.205	0.21632029
0.50115114	0.215	0.21932372
0.51805353	0.225	0.23544775
0.534704	0.235	0.2518011
0.53780675	0.245	0.25489888
0.5542002	0.255	0.2715231
0.55725855	0.265	0.27467167
0.5718124	0.275	0.2898539
0.57343507	0.285	0.29156676
0.58945674	0.295	0.30869094
0.59245133	0.305	0.31193376
0.59367865	0.315	0.31326655
0.6083188	0.325	0.32933274
0.6112873	0.335	0.3326275
0.62702996	0.345	0.35030547
0.6295692	0.355	0.35318863
0.6426885	0.365	0.3682225
0.6456224	0.375	0.3716156
0.66120434	0.385	0.38982275
0.6641261	0.395	0.39327106

0.6795062	0.405	0.4115973
0.6796552	0.415	0.4117763
0.6951573	0.425	0.43053964
0.6980679	0.435	0.43409407
0.71355784	0.445	0.45317367
0.71646816	0.455	0.4567886
0.71932286	0.465	0.46034348
0.7319671	0.475	0.47619638
0.7440602	0.485	0.49151808
0.7474895	0.495	0.49589077
0.75005627	0.505	0.4991715
0.7504095	0.515	0.49962354
0.75500035	0.525	0.50551
0.7659786	0.535	0.51967216
0.7689093	0.545	0.52347296
0.78454536	0.555	0.5438924
0.78665936	0.565	0.5466709
0.80025387	0.575	0.56463814
0.80321425	0.585	0.5685732
0.81419647	0.595	0.58323973
0.8190278	0.605	0.5897255
0.8379499	0.615	0.6153204
0.84299827	0.625	0.62219983
0.84422755	0.635	0.62387806
0.8442325	0.645	0.62388486
0.8527213	0.655	0.6355081
0.8528227	0.665	0.6356473
0.85401344	0.675	0.6372825
0.85704637	0.685	0.6414525
0.8732779	0.695	0.6638923
0.8927682	0.705	0.6911034

0.9077606	0.715	0.71222526
0.9093733	0.725	0.7145068
0.9125146	0.735	0.7189564
0.92936033	0.745	0.74293536
0.9496651	0.755	0.7720944
0.9612266	0.765	0.78881884
0.9670323	0.775	0.79724973
0.97032505	0.785	0.8020409
0.97116226	0.795	0.8032601
0.9726714	0.805	0.80545914
0.9837422	0.815	0.82163423
0.9838814	0.825	0.8218382
0.98802274	0.835	0.8279088
0.99929863	0.845	0.84449124
1.0089102	0.855	0.858687
1.0094467	0.865	0.85948116
1.0095103	0.875	0.8595752
1.0098666	0.885	0.86010265
1.0278546	0.895	0.88682824
1.0313535	0.905	0.892049
1.05021	0.915	0.9203069
1.0731547	0.925	0.9549668
1.0876498	0.935	0.9770169
1.0895594	0.945	0.9799308
1.0929775	0.955	0.9851513
1.0935022	0.965	0.9859532
1.0967573	0.975	0.990932
1.1048567	0.985	1.0033462
1.1067567	0.995	1.0062635
1.1171945	1.005	1.0223273
1.117807	1.015	1.0232718

1.1265519	1.025	1.0367802
1.1281962	1.035	1.0393254
1.1326997	1.045	1.0463029
1.1336896	1.055	1.0478382
1.1422237	1.065	1.061097
1.1485521	1.075	1.0709558
1.1627115	1.085	1.0930966
1.1639993	1.095	1.095116
1.1681683	1.105	1.1016599
1.1908078	1.115	1.1373721
1.2076944	1.125	1.1642054
1.2142667	1.135	1.1746948
1.218773	1.145	1.1819022
1.2188619	1.155	1.1820446
1.2190963	1.165	1.1824197
1.2377205	1.175	1.2123424
1.2433349	1.185	1.2214051
1.2473798	1.195	1.2279466
1.2480636	1.205	1.2290534
1.2515377	1.215	1.2346816
1.2564149	1.225	1.2425959
1.2649678	1.235	1.2565119
1.2738991	1.245	1.2710946
1.2775671	1.255	1.277099
1.278016	1.265	1.2778343
1.2791928	1.275	1.279763
1.2799772	1.285	1.2810489
1.2828825	1.295	1.2858157
1.2915741	1.305	1.3001107
1.2963904	1.315	1.3080543
1.3009682	1.325	1.3156192

1.3062053	1.335	1.324292
1.3064644	1.345	1.3247216
1.3078413	1.355	1.3270051
1.3120289	1.365	1.3339584
1.3155197	1.375	1.3397644
1.3245991	1.385	1.3549069
1.3281648	1.395	1.3608701
1.334978	1.405	1.3722906
1.3405635	1.415	1.3816794
1.3655657	1.425	1.424
1.3713678	1.435	1.4338919
1.394867	1.445	1.4742392
1.3998464	1.455	1.4828488
1.404211	1.465	1.4904132
1.4049052	1.475	1.4916176
1.4106389	1.485	1.5015837
1.4121898	1.495	1.5042844
1.4153302	1.505	1.5097594
1.4298024	1.515	1.5351075
1.4299948	1.525	1.5354458
1.4303898	1.535	1.5361403
1.4332466	1.545	1.5411685
1.4388858	1.555	1.5511161
1.4410369	1.565	1.554919
1.4439335	1.575	1.5600462
1.4447596	1.585	1.5615101
1.4464235	1.595	1.5644604
1.447654	1.605	1.5666441
1.452638	1.615	1.5755036
1.4534689	1.625	1.576983
1.4717873	1.635	1.6097735

1.476223	1.645	1.6177648
1.4839842	1.655	1.6317972
1.4908422	1.665	1.6442497
1.49297	1.675	1.6481233
1.4948469	1.685	1.6515446
1.5109515	1.695	1.6810583
1.5148072	1.705	1.6881673
1.5298109	1.715	1.715994
1.5364567	1.725	1.728404
1.5451568	1.735	1.7447302
1.557334	1.745	1.7677374
1.5631052	1.755	1.7787064
1.5646497	1.765	1.7816489
1.5658513	1.775	1.7839404
1.5699215	1.785	1.7917161
1.5700153	1.795	1.7918957
1.571493	1.805	1.7947243
1.57519	1.815	1.801813
1.5837297	1.825	1.8182564
1.590014	1.835	1.8304192
1.5949106	1.845	1.8399332
1.600605	1.855	1.8510383
1.6033026	1.865	1.8563149
1.6049994	1.875	1.8596393
1.6117722	1.885	1.872948
1.6172295	1.895	1.8837192
1.6184808	1.905	1.8861948
1.6247374	1.915	1.8986076
1.633986	1.925	1.9170617
1.6469371	1.935	1.943118
1.6568996	1.945	1.9633361

1.6580633	1.955	1.9657077
1.6635078	1.965	1.9768324
1.6637197	1.975	1.9772663
1.6650178	1.985	1.9799261
1.6650525	1.995	1.9799973
1.6866986	2.005	2.0247507
1.6910542	2.015	2.0338492
1.6963723	2.025	2.045001
1.6972196	2.035	2.0467825
1.7015066	2.045	2.0558133
1.7105491	2.055	2.074966
1.7170955	2.065	2.0889204
1.72007	2.075	2.0952857
1.7238885	2.085	2.1034803
1.7308639	2.095	2.1185174
1.7309803	2.105	2.1187692
1.7310284	2.115	2.1188731
1.7336984	2.125	2.124653
1.7468493	2.135	2.1533127
1.7485558	2.145	2.1570551
1.7494951	2.155	2.1591175
1.7499381	2.165	2.1600907
1.751522	2.175	2.163573
1.7529607	2.185	2.1667407
1.757527	2.195	2.17682
1.769225	2.205	2.2028236
1.7727543	2.215	2.2107208
1.7796805	2.225	2.2262907
1.7803957	2.235	2.2279038
1.7847911	2.245	2.23784
1.7867882	2.255	2.2423675

1.7881039	2.265	2.2453547
1.7973273	2.275	2.2663934
1.8030391	2.285	2.2795095
1.8129005	2.295	2.3023138
1.8143891	2.305	2.305774
1.8148608	2.315	2.3068714
1.8150657	2.325	2.3073483
1.8231592	2.335	2.3262544
1.8343595	2.345	2.35265
1.8385391	2.355	2.36257
1.8410931	2.365	2.3686507
1.8430085	2.375	2.3732204
1.8473107	2.385	2.383514
1.8477575	2.395	2.3845856
1.8483242	2.405	2.385945
1.8491658	2.415	2.3879654
1.861861	2.425	2.4186363
1.8668004	2.435	2.4306686
1.871122	2.445	2.4412425
1.8739611	2.455	2.4482124
1.8803186	2.465	2.4638882
1.8889507	2.475	2.4853249
1.8928429	2.485	2.4950488
1.8974344	2.495	2.5065663
1.902063	2.505	2.5182288
1.9063644	2.515	2.5291138
1.9068686	2.525	2.5303922
1.9085016	2.535	2.5345385
1.9092383	2.545	2.5364113
1.9154512	2.555	2.552257
1.9155174	2.565	2.5524263

1.9219384	2.575	2.5689046
1.9339685	2.585	2.6000574
1.9355997	2.595	2.6043098
1.9369547	2.605	2.6078472
1.9396471	2.615	2.61489
1.9412966	2.625	2.619214
1.9421533	2.635	2.621463
1.9471402	2.645	2.63459
1.9520375	2.655	2.647544
1.9603192	2.665	2.669593
1.9636195	2.675	2.6784306
1.9680771	2.685	2.6904128
1.9702874	2.695	2.6963742
1.9796883	2.705	2.721875
1.9807284	2.715	2.724711
1.9825402	2.725	2.7296586
1.9856039	2.735	2.7380447
1.9932345	2.745	2.7590442
1.9946169	2.755	2.7628658
1.9953969	2.765	2.7650242
1.998749	2.775	2.7743206
1.999581	2.785	2.7766325