

Gaussian Quadrature Weights and Abscissae

This page is a tabulation of weights and abscissae for use in performing [Legendre-Gauss quadrature](#) integral approximation, which tries to solve the following function

$$\int_a^b f(x)dx = \sum_{i=1}^{\infty} w_i f(x_i) \simeq \sum_{i=1}^n w_i f(x_i)$$

by picking approximate values for n , w_i and x_i . While only defined for the interval $[-1,1]$, this is actually a universal function, because we can convert the limits of integration for any interval $[a,b]$ to the Legendre-Gauss interval $[-1,1]$:

$$\int_a^b f(x)dx = \frac{b-a}{2} \int_{-1}^1 f\left(\frac{b-a}{2}x_i + \frac{b+a}{2}\right) dx \simeq \frac{b-a}{2} \sum_{i=1}^n w_i \cdot f\left(\frac{b-a}{2}x_i + \frac{b+a}{2}\right)$$

The summation function is called the Legendre-Gauss quadrature rule because the abscissae x_i in the Gauss quadrature function for $[-1,1]$ are defined as the roots of the [Legendre polynomial](#) for n :

$$P_n(x) = \frac{1}{2\pi i} \oint (1 - 2tx + r^2)^{-1/2} t^{-n-1} dt$$

with the weights w_i coming from the following function:

$$w_i = -\frac{2}{(1 - x_i^2)[P'_n(x_i)]^2}$$

(The procedure is explained in more detail [here](#), with a very accessible video lecture on the theory behind the Gauss quadrature rule [here](#))

The tables provided here give the values for x_i and w_i for $n=2$ through $n=64$, with an internal decimal precision of 256, limited to 16 decimals due to floating point number limits in PHP. These tables were made using the numbers that are generated by the following series of Mathematica instructions:

```

symboliclegendre[n_, x_] := Solve[LegendreP[n, x] == 0];
legendreprime[n_, a_] := D[LegendreP[n, x], x] /. x -> a;
weights[n_, x_] := 2/((1 - x^2) legendreprime[n, x]^2);

(*how many terms should be generated*)
h = 64;

(* what numerical precision is desired? *)
precision = 256;

str = OpenWrite["lgvalues.txt"];
Write[str, "abscissae"];
Do[Write[str]; Write[str, n]; Write[str];
  nlist = symboliclegendre[n, x];
  xnlist = x /. nlist;
  Do[Write[str, N[Part[xnlist, i], precision]], {i, Length[xnlist]}], {n, 2, h}];
Write[str, "weights"];
Do[Write[str]; Write[str, n]; Write[str];
  slist := symboliclegendre[n, x];

```

```

xslist = x /. slist;
Do[Write[str, N[weights[n, Part[xslist, i]], precision]], {i, Length[xslist]}]], {n, 2, h}];
Close[str];

```

If you need higher precision than is presented on this web page you can either download the abscissae and weights files below, or you can run this program in Mathematica yourself, with higher precision and/or higher h values.

- [abscissae](#) (607KB, easily converted to not-PHP)
- [weights](#) (615KB, easily converted to not-PHP)

Weights and Abscissae Tables for n=2 to n=64

n = 2

jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	1.0000000000000000	-0.5773502691896257
2	1.0000000000000000	0.5773502691896257

n = 3

jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.8888888888888888	0.0000000000000000
2	0.5555555555555556	-0.774596692414834
3	0.5555555555555556	0.774596692414834

n = 4

jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.6521451548625461	-0.3399810435848563
2	0.6521451548625461	0.3399810435848563
3	0.3478548451374538	-0.8611363115940526
4	0.3478548451374538	0.8611363115940526

n = 5

jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.568888888888889	0.0000000000000000
2	0.4786286704993665	-0.5384693101056831
3	0.4786286704993665	0.5384693101056831
4	0.2369268850561891	-0.9061798459386640
5	0.2369268850561891	0.9061798459386640

n = 6

jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

<i>i</i>	weight - w_i	abscissa - x_i
1	0.3607615730481386	0.6612093864662645
2	0.3607615730481386	-0.6612093864662645
3	0.4679139345726910	-0.2386191860831969
4	0.4679139345726910	0.2386191860831969
5	0.1713244923791704	-0.9324695142031521
6	0.1713244923791704	0.9324695142031521

n = 7

jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

<i>i</i>	weight - w_i	abscissa - x_i
1	0.4179591836734694	0.0000000000000000
2	0.3818300505051189	0.4058451513773972
3	0.3818300505051189	-0.4058451513773972
4	0.2797053914892766	-0.7415311855993945
5	0.2797053914892766	0.7415311855993945
6	0.1294849661688697	-0.9491079123427585
7	0.1294849661688697	0.9491079123427585

n = 8

jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

<i>i</i>	weight - w_i	abscissa - x_i
1	0.3626837833783620	-0.1834346424956498
2	0.3626837833783620	0.1834346424956498
3	0.3137066458778873	-0.5255324099163290
4	0.3137066458778873	0.5255324099163290
5	0.2223810344533745	-0.7966664774136267
6	0.2223810344533745	0.7966664774136267
7	0.1012285362903763	-0.9602898564975363
8	0.1012285362903763	0.9602898564975363

n = 9

jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

<i>i</i>	weight - w_i	abscissa - x_i
1	0.3302393550012598	0.0000000000000000
2	0.1806481606948574	-0.8360311073266358

i	weight - w_i	abscissa - x_i
3	0.1806481606948574	0.8360311073266358
4	0.0812743883615744	-0.9681602395076261
5	0.0812743883615744	0.9681602395076261
6	0.3123470770400029	-0.3242534234038089
7	0.3123470770400029	0.3242534234038089
8	0.2606106964029354	-0.6133714327005904
9	0.2606106964029354	0.6133714327005904

n = 10

jump to n = 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64

i	weight - w_i	abscissa - x_i
1	0.2955242247147529	-0.1488743389816312
2	0.2955242247147529	0.1488743389816312
3	0.2692667193099963	-0.4333953941292472
4	0.2692667193099963	0.4333953941292472
5	0.2190863625159820	-0.6794095682990244
6	0.2190863625159820	0.6794095682990244
7	0.1494513491505806	-0.8650633666889845
8	0.1494513491505806	0.8650633666889845
9	0.0666713443086881	-0.9739065285171717
10	0.0666713443086881	0.9739065285171717

n = 11

jump to n = 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64

i	weight - w_i	abscissa - x_i
1	0.2729250867779006	0.0000000000000000
2	0.2628045445102467	-0.2695431559523450
3	0.2628045445102467	0.2695431559523450
4	0.2331937645919905	-0.5190961292068118
5	0.2331937645919905	0.5190961292068118
6	0.1862902109277343	-0.7301520055740494
7	0.1862902109277343	0.7301520055740494
8	0.1255803694649046	-0.8870625997680953
9	0.1255803694649046	0.8870625997680953
10	0.0556685671161737	-0.9782286581460570
11	0.0556685671161737	0.9782286581460570

n = 12

jump to n = 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64

i	weight - w_i	abscissa - x_i
1	0.2491470458134028	-0.1252334085114689
2	0.2491470458134028	0.1252334085114689
3	0.2334925365383548	-0.3678314989981802
4	0.2334925365383548	0.3678314989981802
5	0.2031674267230659	-0.5873179542866175
6	0.2031674267230659	0.5873179542866175
7	0.1600783285433462	-0.7699026741943047
8	0.1600783285433462	0.7699026741943047
9	0.1069393259953184	-0.9041172563704749
10	0.1069393259953184	0.9041172563704749
11	0.0471753363865118	-0.9815606342467192
12	0.0471753363865118	0.9815606342467192

n = 13jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.2325515532308739	0.0000000000000000
2	0.2262831802628972	-0.2304583159551348
3	0.2262831802628972	0.2304583159551348
4	0.2078160475368885	-0.4484927510364469
5	0.2078160475368885	0.4484927510364469
6	0.1781459807619457	-0.6423493394403402
7	0.1781459807619457	0.6423493394403402
8	0.1388735102197872	-0.8015780907333099
9	0.1388735102197872	0.8015780907333099
10	0.0921214998377285	-0.9175983992229779
11	0.0921214998377285	0.9175983992229779
12	0.0404840047653159	-0.9841830547185881
13	0.0404840047653159	0.9841830547185881

n = 14jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.2152638534631578	-0.1080549487073437
2	0.2152638534631578	0.1080549487073437
3	0.2051984637212956	-0.3191123689278897
4	0.2051984637212956	0.3191123689278897
5	0.1855383974779378	-0.5152486363581541
6	0.1855383974779378	0.5152486363581541

i	weight - w_i	abscissa - x_i
7	0.1572031671581935	-0.6872929048116855
8	0.1572031671581935	0.6872929048116855
9	0.1215185706879032	-0.8272013150697650
10	0.1215185706879032	0.8272013150697650
11	0.0801580871597602	-0.9284348836635735
12	0.0801580871597602	0.9284348836635735
13	0.0351194603317519	-0.9862838086968123
14	0.0351194603317519	0.9862838086968123

n = 15jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.2025782419255613	0.0000000000000000
2	0.1984314853271116	-0.2011940939974345
3	0.1984314853271116	0.2011940939974345
4	0.1861610000155622	-0.3941513470775634
5	0.1861610000155622	0.3941513470775634
6	0.1662692058169939	-0.5709721726085388
7	0.1662692058169939	0.5709721726085388
8	0.1395706779261543	-0.7244177313601701
9	0.1395706779261543	0.7244177313601701
10	0.1071592204671719	-0.8482065834104272
11	0.1071592204671719	0.8482065834104272
12	0.0703660474881081	-0.9372733924007060
13	0.0703660474881081	0.9372733924007060
14	0.0307532419961173	-0.9879925180204854
15	0.0307532419961173	0.9879925180204854

n = 16jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.1894506104550685	-0.0950125098376374
2	0.1894506104550685	0.0950125098376374
3	0.1826034150449236	-0.2816035507792589
4	0.1826034150449236	0.2816035507792589
5	0.1691565193950025	-0.4580167776572274
6	0.1691565193950025	0.4580167776572274
7	0.1495959888165767	-0.6178762444026438
8	0.1495959888165767	0.6178762444026438

i	weight - w_i	abscissa - x_i
9	0.1246289712555339	-0.7554044083550030
10	0.1246289712555339	0.7554044083550030
11	0.0951585116824928	-0.8656312023878318
12	0.0951585116824928	0.8656312023878318
13	0.0622535239386479	-0.9445750230732326
14	0.0622535239386479	0.9445750230732326
15	0.0271524594117541	-0.9894009349916499
16	0.0271524594117541	0.9894009349916499

n = 17jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.1794464703562065	0.0000000000000000
2	0.1765627053669926	-0.1784841814958479
3	0.1765627053669926	0.1784841814958479
4	0.1680041021564500	-0.3512317634538763
5	0.1680041021564500	0.3512317634538763
6	0.1540457610768103	-0.5126905370864769
7	0.1540457610768103	0.5126905370864769
8	0.1351363684685255	-0.6576711592166907
9	0.1351363684685255	0.6576711592166907
10	0.1118838471934040	-0.7815140038968014
11	0.1118838471934040	0.7815140038968014
12	0.0850361483171792	-0.8802391537269859
13	0.0850361483171792	0.8802391537269859
14	0.0554595293739872	-0.9506755217687678
15	0.0554595293739872	0.9506755217687678
16	0.0241483028685479	-0.9905754753144174
17	0.0241483028685479	0.9905754753144174

n = 18jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.1691423829631436	-0.0847750130417353
2	0.1691423829631436	0.0847750130417353
3	0.1642764837458327	-0.2518862256915055
4	0.1642764837458327	0.2518862256915055
5	0.1546846751262652	-0.4117511614628426
6	0.1546846751262652	0.4117511614628426

i	weight - w_i	abscissa - x_i
7	0.1406429146706507	-0.5597708310739475
8	0.1406429146706507	0.5597708310739475
9	0.1225552067114785	-0.6916870430603532
10	0.1225552067114785	0.6916870430603532
11	0.1009420441062872	-0.8037049589725231
12	0.1009420441062872	0.8037049589725231
13	0.0764257302548891	-0.8926024664975557
14	0.0764257302548891	0.8926024664975557
15	0.0497145488949698	-0.9558239495713977
16	0.0497145488949698	0.9558239495713977
17	0.0216160135264833	-0.9915651684209309
18	0.0216160135264833	0.9915651684209309

n = 19jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.1610544498487837	0.0000000000000000
2	0.1589688433939543	-0.1603586456402254
3	0.1589688433939543	0.1603586456402254
4	0.1527660420658597	-0.3165640999636298
5	0.1527660420658597	0.3165640999636298
6	0.1426067021736066	-0.4645707413759609
7	0.1426067021736066	0.4645707413759609
8	0.1287539625393362	-0.6005453046616810
9	0.1287539625393362	0.6005453046616810
10	0.1115666455473340	-0.7209661773352294
11	0.1115666455473340	0.7209661773352294
12	0.0914900216224500	-0.8227146565371428
13	0.0914900216224500	0.8227146565371428
14	0.0690445427376412	-0.9031559036148179
15	0.0690445427376412	0.9031559036148179
16	0.0448142267656996	-0.9602081521348300
17	0.0448142267656996	0.9602081521348300
18	0.0194617882297265	-0.9924068438435844
19	0.0194617882297265	0.9924068438435844

n = 20jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.1527533871307258	-0.0765265211334973
2	0.1527533871307258	0.0765265211334973
3	0.1491729864726037	-0.2277858511416451
4	0.1491729864726037	0.2277858511416451
5	0.1420961093183820	-0.3737060887154195
6	0.1420961093183820	0.3737060887154195
7	0.1316886384491766	-0.5108670019508271
8	0.1316886384491766	0.5108670019508271
9	0.1181945319615184	-0.6360536807265150
10	0.1181945319615184	0.6360536807265150
11	0.1019301198172404	-0.7463319064601508
12	0.1019301198172404	0.7463319064601508
13	0.0832767415767048	-0.8391169718222188
14	0.0832767415767048	0.8391169718222188
15	0.0626720483341091	-0.9122344282513259
16	0.0626720483341091	0.9122344282513259
17	0.0406014298003869	-0.9639719272779138
18	0.0406014298003869	0.9639719272779138
19	0.0176140071391521	-0.9931285991850949
20	0.0176140071391521	0.9931285991850949

n = 21jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.1460811336496904	0.0000000000000000
2	0.1445244039899700	-0.1455618541608951
3	0.1445244039899700	0.1455618541608951
4	0.1398873947910731	-0.2880213168024011
5	0.1398873947910731	0.2880213168024011
6	0.1322689386333375	-0.4243421202074388
7	0.1322689386333375	0.4243421202074388
8	0.1218314160537285	-0.5516188358872198
9	0.1218314160537285	0.5516188358872198
10	0.1087972991671484	-0.6671388041974123
11	0.1087972991671484	0.6671388041974123
12	0.0934444234560339	-0.7684399634756779
13	0.0934444234560339	0.7684399634756779
14	0.0761001136283793	-0.8533633645833173
15	0.0761001136283793	0.8533633645833173

i	weight - w_i	abscissa - x_i
16	0.0571344254268572	-0.9200993341504008
17	0.0571344254268572	0.9200993341504008
18	0.0369537897708525	-0.9672268385663063
19	0.0369537897708525	0.9672268385663063
20	0.0160172282577743	-0.9937521706203895
21	0.0160172282577743	0.9937521706203895

n = 22jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.1392518728556320	-0.0697392733197222
2	0.1392518728556320	0.0697392733197222
3	0.1365414983460152	-0.2078604266882213
4	0.1365414983460152	0.2078604266882213
5	0.1311735047870624	-0.3419358208920842
6	0.1311735047870624	0.3419358208920842
7	0.1232523768105124	-0.4693558379867570
8	0.1232523768105124	0.4693558379867570
9	0.1129322960805392	-0.5876404035069116
10	0.1129322960805392	0.5876404035069116
11	0.1004141444428810	-0.6944872631866827
12	0.1004141444428810	0.6944872631866827
13	0.0859416062170677	-0.7878168059792081
14	0.0859416062170677	0.7878168059792081
15	0.0697964684245205	-0.8658125777203002
16	0.0697964684245205	0.8658125777203002
17	0.0522933351526833	-0.9269567721871740
18	0.0522933351526833	0.9269567721871740
19	0.0337749015848142	-0.9700604978354287
20	0.0337749015848142	0.9700604978354287
21	0.0146279952982722	-0.9942945854823992
22	0.0146279952982722	0.9942945854823992

n = 23jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.1336545721861062	0.0000000000000000
2	0.1324620394046966	-0.1332568242984661
3	0.1324620394046966	0.1332568242984661

i	weight - w_i	abscissa - x_i
4	0.1289057221880822	-0.2641356809703450
5	0.1289057221880822	0.2641356809703450
6	0.1230490843067295	-0.3903010380302908
7	0.1230490843067295	0.3903010380302908
8	0.1149966402224114	-0.5095014778460075
9	0.1149966402224114	0.5095014778460075
10	0.1048920914645414	-0.6196098757636461
11	0.1048920914645414	0.6196098757636461
12	0.0929157660600352	-0.7186613631319502
13	0.0929157660600352	0.7186613631319502
14	0.0792814117767189	-0.8048884016188399
15	0.0792814117767189	0.8048884016188399
16	0.0642324214085258	-0.8767523582704416
17	0.0642324214085258	0.8767523582704416
18	0.0480376717310847	-0.9329710868260161
19	0.0480376717310847	0.9329710868260161
20	0.0309880058569794	-0.9725424712181152
21	0.0309880058569794	0.9725424712181152
22	0.0134118594871418	-0.9947693349975522
23	0.0134118594871418	0.9947693349975522

n = 24jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.1279381953467522	-0.0640568928626056
2	0.1279381953467522	0.0640568928626056
3	0.1258374563468283	-0.1911188674736163
4	0.1258374563468283	0.1911188674736163
5	0.1216704729278034	-0.3150426796961634
6	0.1216704729278034	0.3150426796961634
7	0.1155056680537256	-0.4337935076260451
8	0.1155056680537256	0.4337935076260451
9	0.1074442701159656	-0.5454214713888396
10	0.1074442701159656	0.5454214713888396
11	0.0976186521041139	-0.6480936519369755
12	0.0976186521041139	0.6480936519369755
13	0.0861901615319533	-0.7401241915785544
14	0.0861901615319533	0.7401241915785544
15	0.0733464814110803	-0.8200019859739029

i	weight - w_i	abscissa - x_i
16	0.0733464814110803	0.8200019859739029
17	0.0592985849154368	-0.8864155270044011
18	0.0592985849154368	0.8864155270044011
19	0.0442774388174198	-0.9382745520027328
20	0.0442774388174198	0.9382745520027328
21	0.0285313886289337	-0.9747285559713095
22	0.0285313886289337	0.9747285559713095
23	0.0123412297999872	-0.9951872199970213
24	0.0123412297999872	0.9951872199970213

n = 25

jump to n = 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64

i	weight - w_i	abscissa - x_i
1	0.1231760537267154	0.0000000000000000
2	0.1222424429903100	-0.1228646926107104
3	0.1222424429903100	0.1228646926107104
4	0.1194557635357848	-0.2438668837209884
5	0.1194557635357848	0.2438668837209884
6	0.1148582591457116	-0.3611723058093879
7	0.1148582591457116	0.3611723058093879
8	0.1085196244742637	-0.4730027314457150
9	0.1085196244742637	0.4730027314457150
10	0.1005359490670506	-0.5776629302412229
11	0.1005359490670506	0.5776629302412229
12	0.0910282619829637	-0.6735663684734684
13	0.0910282619829637	0.6735663684734684
14	0.0801407003350010	-0.7592592630373576
15	0.0801407003350010	0.7592592630373576
16	0.0680383338123569	-0.8334426287608340
17	0.0680383338123569	0.8334426287608340
18	0.0549046959758352	-0.8949919978782753
19	0.0549046959758352	0.8949919978782753
20	0.0409391567013063	-0.9429745712289743
21	0.0409391567013063	0.9429745712289743
22	0.0263549866150321	-0.9766639214595175
23	0.0263549866150321	0.9766639214595175
24	0.0113937985010263	-0.9955569697904981
25	0.0113937985010263	0.9955569697904981

n = 26

jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

<i>i</i>	weight - w_i	abscissa - x_i
1	0.1183214152792623	-0.0592300934293132
2	0.1183214152792623	0.0592300934293132
3	0.1166604434852966	-0.1768588203568902
4	0.1166604434852966	0.1768588203568902
5	0.1133618165463197	-0.2920048394859569
6	0.1133618165463197	0.2920048394859569
7	0.1084718405285766	-0.4030517551234863
8	0.1084718405285766	0.4030517551234863
9	0.1020591610944254	-0.5084407148245057
10	0.1020591610944254	0.5084407148245057
11	0.0942138003559141	-0.6066922930176181
12	0.0942138003559141	0.6066922930176181
13	0.0850458943134852	-0.6964272604199573
14	0.0850458943134852	0.6964272604199573
15	0.0746841497656597	-0.7763859488206789
16	0.0746841497656597	0.7763859488206789
17	0.0632740463295748	-0.8454459427884981
18	0.0632740463295748	0.8454459427884981
19	0.0509758252971478	-0.9026378619843071
20	0.0509758252971478	0.9026378619843071
21	0.0379623832943628	-0.9471590666617142
22	0.0379623832943628	0.9471590666617142
23	0.0244178510926319	-0.9783854459564710
24	0.0244178510926319	0.9783854459564710
25	0.0105513726173430	-0.9958857011456169
26	0.0105513726173430	0.9958857011456169

n = 27

jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

<i>i</i>	weight - w_i	abscissa - x_i
1	0.1142208673789570	0.0000000000000000
2	0.1134763461089651	-0.1139725856095300
3	0.1134763461089651	0.1139725856095300
4	0.1112524883568452	-0.2264593654395368
5	0.1112524883568452	0.2264593654395368
6	0.1075782857885332	-0.3359939036385089

i	weight - w_i	abscissa - x_i
7	0.1075782857885332	0.3359939036385089
8	0.1025016378177458	-0.4411482517500269
9	0.1025016378177458	0.4411482517500269
10	0.0960887273700285	-0.5405515645794569
11	0.0960887273700285	0.5405515645794569
12	0.0884231585437569	-0.6329079719464952
13	0.0884231585437569	0.6329079719464952
14	0.0796048677730578	-0.7170134737394237
15	0.0796048677730578	0.7170134737394237
16	0.0697488237662456	-0.7917716390705082
17	0.0697488237662456	0.7917716390705082
18	0.0589835368598336	-0.8562079080182945
19	0.0589835368598336	0.8562079080182945
20	0.0474494125206151	-0.9094823206774911
21	0.0474494125206151	0.9094823206774911
22	0.0352970537574197	-0.9509005578147051
23	0.0352970537574197	0.9509005578147051
24	0.0226862315961806	-0.9799234759615012
25	0.0226862315961806	0.9799234759615012
26	0.0097989960512944	-0.9961792628889886
27	0.0097989960512944	0.9961792628889886

n = 28jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.1100470130164752	-0.0550792898840343
2	0.1100470130164752	0.0550792898840343
3	0.1087111922582941	-0.1645692821333808
4	0.1087111922582941	0.1645692821333808
5	0.1060557659228464	-0.2720616276351781
6	0.1060557659228464	0.2720616276351781
7	0.1021129675780608	-0.3762515160890787
8	0.1021129675780608	0.3762515160890787
9	0.0969306579979299	-0.4758742249551183
10	0.0969306579979299	0.4758742249551183
11	0.0905717443930328	-0.5697204718114017
12	0.0905717443930328	0.5697204718114017
13	0.0831134172289012	-0.6566510940388650
14	0.0831134172289012	0.6566510940388650

i	weight - w_i	abscissa - x_i
15	0.0746462142345688	-0.7356108780136318
16	0.0746462142345688	0.7356108780136318
17	0.0652729239669996	-0.8056413709171791
18	0.0652729239669996	0.8056413709171791
19	0.0551073456757167	-0.8658925225743951
20	0.0551073456757167	0.8658925225743951
21	0.0442729347590042	-0.9156330263921321
22	0.0442729347590042	0.9156330263921321
23	0.0329014277823044	-0.9542592806289382
24	0.0329014277823044	0.9542592806289382
25	0.0211321125927713	-0.9813031653708727
26	0.0211321125927713	0.9813031653708727
27	0.0091242825930945	-0.9964424975739544
28	0.0091242825930945	0.9964424975739544

n = 29

jump to n = 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64

i	weight - w_i	abscissa - x_i
1	0.1064793817183142	0.0000000000000000
2	0.1058761550973209	-0.1062782301326792
3	0.1058761550973209	0.1062782301326792
4	0.1040733100777294	-0.2113522861660011
5	0.1040733100777294	0.2113522861660011
6	0.1010912737599150	-0.3140316378676399
7	0.1010912737599150	0.3140316378676399
8	0.0969638340944086	-0.4131528881740086
9	0.0969638340944086	0.4131528881740086
10	0.0917377571392588	-0.5075929551242276
11	0.0917377571392588	0.5075929551242276
12	0.0854722573661725	-0.5962817971382278
13	0.0854722573661725	0.5962817971382278
14	0.0782383271357638	-0.6782145376026865
15	0.0782383271357638	0.6782145376026865
16	0.0701179332550513	-0.7524628517344771
17	0.0701179332550513	0.7524628517344771
18	0.0612030906570791	-0.8181854876152524
19	0.0612030906570791	0.8181854876152524
20	0.0515948269024979	-0.8746378049201028
21	0.0515948269024979	0.8746378049201028

i	weight - w_i	abscissa - x_i
22	0.0414020625186828	-0.9211802329530587
23	0.0414020625186828	0.9211802329530587
24	0.0307404922020936	-0.9572855957780877
25	0.0307404922020936	0.9572855957780877
26	0.0197320850561227	-0.9825455052614132
27	0.0197320850561227	0.9825455052614132
28	0.0085169038787464	-0.9966794422605966
29	0.0085169038787464	0.9966794422605966

n = 30jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.1028526528935588	-0.0514718425553177
2	0.1028526528935588	0.0514718425553177
3	0.1017623897484055	-0.1538699136085835
4	0.1017623897484055	0.1538699136085835
5	0.0995934205867953	-0.2546369261678899
6	0.0995934205867953	0.2546369261678899
7	0.0963687371746443	-0.3527047255308781
8	0.0963687371746443	0.3527047255308781
9	0.0921225222377861	-0.4470337695380892
10	0.0921225222377861	0.4470337695380892
11	0.0868997872010830	-0.5366241481420199
12	0.0868997872010830	0.5366241481420199
13	0.0807558952294202	-0.6205261829892429
14	0.0807558952294202	0.6205261829892429
15	0.0737559747377052	-0.6978504947933158
16	0.0737559747377052	0.6978504947933158
17	0.0659742298821805	-0.7677774321048262
18	0.0659742298821805	0.7677774321048262
19	0.0574931562176191	-0.8295657623827684
20	0.0574931562176191	0.8295657623827684
21	0.0484026728305941	-0.8825605357920527
22	0.0484026728305941	0.8825605357920527
23	0.0387991925696271	-0.9262000474292743
24	0.0387991925696271	0.9262000474292743
25	0.0287847078833234	-0.9600218649683075
26	0.0287847078833234	0.9600218649683075
27	0.0184664683110910	-0.9836681232797472

i	weight - w_i	abscissa - x_i
28	0.0184664683110910	0.9836681232797472
29	0.0079681924961666	-0.9968934840746495
30	0.0079681924961666	0.9968934840746495

n = 31jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0997205447934265	0.0000000000000000
2	0.0992250112266723	-0.0995553121523415
3	0.0992250112266723	0.0995553121523415
4	0.0977433353863287	-0.1981211993355706
5	0.0977433353863287	0.1981211993355706
6	0.0952902429123195	-0.2947180699817016
7	0.0952902429123195	0.2947180699817016
8	0.0918901138936415	-0.3883859016082329
9	0.0918901138936415	0.3883859016082329
10	0.0875767406084779	-0.4781937820449025
11	0.0875767406084779	0.4781937820449025
12	0.0823929917615893	-0.5632491614071493
13	0.0823929917615893	0.5632491614071493
14	0.0763903865987766	-0.6427067229242603
15	0.0763903865987766	0.6427067229242603
16	0.0696285832354104	-0.7157767845868532
17	0.0696285832354104	0.7157767845868532
18	0.0621747865610284	-0.7817331484166249
19	0.0621747865610284	0.7817331484166249
20	0.0541030824249169	-0.8399203201462674
21	0.0541030824249169	0.8399203201462674
22	0.0454937075272011	-0.8897600299482711
23	0.0454937075272011	0.8897600299482711
24	0.0364322739123855	-0.9307569978966481
25	0.0364322739123855	0.9307569978966481
26	0.0270090191849794	-0.9625039250929497
27	0.0270090191849794	0.9625039250929497
28	0.0173186207903106	-0.9846859096651525
29	0.0173186207903106	0.9846859096651525
30	0.0074708315792488	-0.9970874818194770
31	0.0074708315792488	0.9970874818194770

n = 32

jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

<i>i</i>	weight - w_i	abscissa - x_i
1	0.0965400885147278	-0.0483076656877383
2	0.0965400885147278	0.0483076656877383
3	0.0956387200792749	-0.1444719615827965
4	0.0956387200792749	0.1444719615827965
5	0.0938443990808046	-0.2392873622521371
6	0.0938443990808046	0.2392873622521371
7	0.0911738786957639	-0.3318686022821277
8	0.0911738786957639	0.3318686022821277
9	0.0876520930044038	-0.4213512761306353
10	0.0876520930044038	0.4213512761306353
11	0.0833119242269467	-0.5068999089322294
12	0.0833119242269467	0.5068999089322294
13	0.0781938957870703	-0.5877157572407623
14	0.0781938957870703	0.5877157572407623
15	0.0723457941088485	-0.6630442669302152
16	0.0723457941088485	0.6630442669302152
17	0.0658222227763618	-0.7321821187402897
18	0.0658222227763618	0.7321821187402897
19	0.0586840934785355	-0.7944837959679424
20	0.0586840934785355	0.7944837959679424
21	0.0509980592623762	-0.8493676137325700
22	0.0509980592623762	0.8493676137325700
23	0.0428358980222267	-0.8963211557660521
24	0.0428358980222267	0.8963211557660521
25	0.0342738629130214	-0.9349060759377397
26	0.0342738629130214	0.9349060759377397
27	0.0253920653092621	-0.9647622555875064
28	0.0253920653092621	0.9647622555875064
29	0.0162743947309057	-0.9856115115452684
30	0.0162743947309057	0.9856115115452684
31	0.0070186100094701	-0.9972638618494816
32	0.0070186100094701	0.9972638618494816

n = 33

jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0937684461602100	0.0000000000000000
2	0.0933564260655961	-0.0936310658547334
3	0.0933564260655961	0.0936310658547334
4	0.0921239866433168	-0.1864392988279916
5	0.0921239866433168	0.1864392988279916
6	0.0900819586606386	-0.2776090971524970
7	0.0900819586606386	0.2776090971524970
8	0.0872482876188443	-0.3663392577480734
9	0.0872482876188443	0.3663392577480734
10	0.0836478760670387	-0.4518500172724507
11	0.0836478760670387	0.4518500172724507
12	0.0793123647948867	-0.5333899047863476
13	0.0793123647948867	0.5333899047863476
14	0.0742798548439541	-0.6102423458363790
15	0.0742798548439541	0.6102423458363790
16	0.0685945728186567	-0.6817319599697428
17	0.0685945728186567	0.6817319599697428
18	0.0623064825303175	-0.7472304964495622
19	0.0623064825303175	0.7472304964495622
20	0.0554708466316636	-0.8061623562741665
21	0.0554708466316636	0.8061623562741665
22	0.0481477428187117	-0.8580096526765041
23	0.0481477428187117	0.8580096526765041
24	0.0404015413316696	-0.9023167677434336
25	0.0404015413316696	0.9023167677434336
26	0.0323003586323290	-0.9386943726111684
27	0.0323003586323290	0.9386943726111684
28	0.0239155481017495	-0.9668229096899927
29	0.0239155481017495	0.9668229096899927
30	0.0153217015129347	-0.9864557262306425
31	0.0153217015129347	0.9864557262306425
32	0.0066062278475874	-0.9974246942464552
33	0.0066062278475874	0.9974246942464552

n = 34jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0909567403302599	-0.0455098219531025
2	0.0909567403302599	0.0455098219531025

i	weight - w_i	abscissa - x_i
3	0.0902030443706407	-0.1361523572591830
4	0.0902030443706407	0.1361523572591830
5	0.0887018978356939	-0.2256666916164495
6	0.0887018978356939	0.2256666916164495
7	0.0864657397470358	-0.3133110813394632
8	0.0864657397470358	0.3133110813394632
9	0.0835130996998457	-0.3983592777586459
10	0.0835130996998457	0.3983592777586459
11	0.0798684443397718	-0.4801065451903270
12	0.0798684443397718	0.4801065451903270
13	0.0755619746600319	-0.5578755006697467
14	0.0755619746600319	0.5578755006697467
15	0.0706293758142557	-0.6310217270805285
16	0.0706293758142557	0.6310217270805285
17	0.0651115215540764	-0.6989391132162629
18	0.0651115215540764	0.6989391132162629
19	0.0590541358275245	-0.7610648766298730
20	0.0590541358275245	0.7610648766298730
21	0.0525074145726781	-0.8168842279009336
22	0.0525074145726781	0.8168842279009336
23	0.0455256115233533	-0.8659346383345645
24	0.0455256115233533	0.8659346383345645
25	0.0381665937963875	-0.9078096777183244
26	0.0381665937963875	0.9078096777183244
27	0.0304913806384461	-0.9421623974051071
28	0.0304913806384461	0.9421623974051071
29	0.0225637219854950	-0.9687082625333443
30	0.0225637219854950	0.9687082625333443
31	0.0144501627485950	-0.9872278164063095
32	0.0144501627485950	0.9872278164063095
33	0.0062291405559087	-0.9975717537908420
34	0.0062291405559087	0.9975717537908420

n = 35jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0884867949071043	0.0000000000000000
2	0.0881405304302755	-0.0883713432756593
3	0.0881405304302755	0.0883713432756593

i	weight - w_i	abscissa - x_i
4	0.0871044469971835	-0.1760510611659896
5	0.0871044469971835	0.1760510611659896
6	0.0853866533920991	-0.2623529412092960
7	0.0853866533920991	0.2623529412092960
8	0.0830005937288566	-0.3466015544308139
9	0.0830005937288566	0.3466015544308139
10	0.0799649422423243	-0.4281375415178142
11	0.0799649422423243	0.4281375415178142
12	0.0763034571554421	-0.5063227732414887
13	0.0763034571554421	0.5063227732414887
14	0.0720447947725601	-0.5805453447497645
15	0.0720447947725601	0.5805453447497645
16	0.0672222852690869	-0.6502243646658904
17	0.0672222852690869	0.6502243646658904
18	0.0618736719660802	-0.7148145015566287
19	0.0618736719660802	0.7148145015566287
20	0.0560408162123701	-0.7738102522869126
21	0.0560408162123701	0.7738102522869126
22	0.0497693704013535	-0.8267498990922254
23	0.0497693704013535	0.8267498990922254
24	0.0431084223261702	-0.8732191250252224
25	0.0431084223261702	0.8732191250252224
26	0.0361101158634634	-0.9128542613593176
27	0.0361101158634634	0.9128542613593176
28	0.0288292601088943	-0.9453451482078273
29	0.0288292601088943	0.9453451482078273
30	0.0213229799114836	-0.9704376160392298
31	0.0213229799114836	0.9704376160392298
32	0.0136508283483615	-0.9879357644438514
33	0.0136508283483615	0.9879357644438514
34	0.0058834334204431	-0.9977065690996003
35	0.0058834334204431	0.9977065690996003

n = 36jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0859832756703948	-0.0430181984737086
2	0.0859832756703948	0.0430181984737086
3	0.0853466857393386	-0.1287361038093848

i	weight - w_i	abscissa - x_i
4	0.0853466857393386	0.1287361038093848
5	0.0840782189796619	-0.2135008923168656
6	0.0840782189796619	0.2135008923168656
7	0.0821872667043397	-0.2966849953440283
8	0.0821872667043397	0.2966849953440283
9	0.0796878289120716	-0.3776725471196892
10	0.0796878289120716	0.3776725471196892
11	0.0765984106458707	-0.4558639444334203
12	0.0765984106458707	0.4558639444334203
13	0.0729418850056531	-0.5306802859262452
14	0.0729418850056531	0.5306802859262452
15	0.0687453238357364	-0.6015676581359806
16	0.0687453238357364	0.6015676581359806
17	0.0640397973550155	-0.6680012365855210
18	0.0640397973550155	0.6680012365855210
19	0.0588601442453248	-0.7294891715935565
20	0.0588601442453248	0.7294891715935565
21	0.0532447139777599	-0.7855762301322066
22	0.0532447139777599	0.7855762301322066
23	0.0472350834902660	-0.8358471669924753
24	0.0472350834902660	0.8358471669924753
25	0.0408757509236449	-0.8799298008903972
26	0.0408757509236449	0.8799298008903972
27	0.0342138107703072	-0.9174977745156591
28	0.0342138107703072	0.9174977745156591
29	0.0272986214985688	-0.9482729843995076
30	0.0272986214985688	0.9482729843995076
31	0.0201815152977355	-0.9720276910496980
32	0.0201815152977355	0.9720276910496980
33	0.0129159472840656	-0.9885864789022122
34	0.0129159472840656	0.9885864789022122
35	0.0055657196642450	-0.9978304624840858
36	0.0055657196642450	0.9978304624840858

n = 37

jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0837683609931389	0.0000000000000000
2	0.0834745736258628	-0.0836704089547699

i	weight - w_i	abscissa - x_i
3	0.0834745736258628	0.0836704089547699
4	0.0825952722364373	-0.1667539302398520
5	0.0825952722364373	0.1667539302398520
6	0.0811366245084650	-0.2486677927913657
7	0.0811366245084650	0.2486677927913657
8	0.0791088618375294	-0.3288374298837070
9	0.0791088618375294	0.3288374298837070
10	0.0765262075705292	-0.4067005093183261
11	0.0765262075705292	0.4067005093183261
12	0.0734067772484882	-0.4817108778032055
13	0.0734067772484882	0.4817108778032055
14	0.0697724515557003	-0.5533423918615817
15	0.0697724515557003	0.5533423918615817
16	0.0656487228727513	-0.6210926084089244
17	0.0656487228727513	0.6210926084089244
18	0.0610645165232260	-0.6844863091309593
19	0.0610645165232260	0.6844863091309593
20	0.0560519879982749	-0.7430788339819653
21	0.0560519879982749	0.7430788339819653
22	0.0506462976548246	-0.7964592005099023
23	0.0506462976548246	0.7964592005099023
24	0.0448853646624372	-0.8442529873405560
25	0.0448853646624372	0.8442529873405560
26	0.0388096025019345	-0.8861249621554861
27	0.0388096025019345	0.8861249621554861
28	0.0324616398475215	-0.9217814374124638
29	0.0324616398475215	0.9217814374124638
30	0.0258860369905589	-0.9509723432620948
31	0.0258860369905589	0.9509723432620948
32	0.0191290444890840	-0.9734930300564858
33	0.0191290444890840	0.9734930300564858
34	0.0122387801003076	-0.9891859632143192
35	0.0122387801003076	0.9891859632143192
36	0.0052730572794979	-0.9979445824779136
37	0.0052730572794979	0.9979445824779136

n = 38jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0815250292803858	-0.0407851479045782
2	0.0815250292803858	0.0407851479045782
3	0.0809824937705971	-0.1220840253378674
4	0.0809824937705971	0.1220840253378674
5	0.0799010332435278	-0.2025704538921167
6	0.0799010332435278	0.2025704538921167
7	0.0782878446582110	-0.2817088097901653
8	0.0782878446582110	0.2817088097901653
9	0.0761536635484464	-0.3589724404794350
10	0.0761536635484464	0.3589724404794350
11	0.0735126925847435	-0.4338471694323765
12	0.0735126925847435	0.4338471694323765
13	0.0703825070668990	-0.5058347179279311
14	0.0703825070668990	0.5058347179279311
15	0.0667839379791404	-0.5744560210478071
16	0.0667839379791404	0.5744560210478071
17	0.0627409333921331	-0.6392544158296817
18	0.0627409333921331	0.6392544158296817
19	0.0582803991469972	-0.6997986803791844
20	0.0582803991469972	0.6997986803791844
21	0.0534320199103323	-0.7556859037539707
22	0.0534320199103323	0.7556859037539707
23	0.0482280618607587	-0.8065441676053168
24	0.0482280618607587	0.8065441676053168
25	0.0427031585046744	-0.8520350219323621
26	0.0427031585046744	0.8520350219323621
27	0.0368940815940247	-0.8918557390046322
28	0.0368940815940247	0.8918557390046322
29	0.0308395005451751	-0.9257413320485844
30	0.0308395005451751	0.9257413320485844
31	0.0245797397382324	-0.9534663309335296
32	0.0245797397382324	0.9534663309335296
33	0.0181565777096132	-0.9748463285901535
34	0.0181565777096132	0.9748463285901535
35	0.0116134447164687	-0.9897394542663855
36	0.0116134447164687	0.9897394542663855
37	0.0050028807496393	-0.9980499305356876
38	0.0050028807496393	0.9980499305356876

n = 39

jump to n = 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64

<i>i</i>	weight - w_i	abscissa - x_i
1	0.0795276221394429	0.0000000000000000
2	0.0792762225683685	-0.0794438046087555
3	0.0792762225683685	0.0794438046087555
4	0.0785236132873712	-0.1583853399978378
5	0.0785236132873712	0.1583853399978378
6	0.0772745525446820	-0.2363255124618358
7	0.0772745525446820	0.2363255124618358
8	0.0755369373228361	-0.3127715592481859
9	0.0755369373228361	0.3127715592481859
10	0.0733217534142686	-0.3872401639715615
11	0.0733217534142686	0.3872401639715615
12	0.0706430059706088	-0.4592605123091361
13	0.0706430059706088	0.4592605123091361
14	0.0675176309662313	-0.5283772686604374
15	0.0675176309662313	0.5283772686604374
16	0.0639653881386824	-0.5941534549572780
17	0.0639653881386824	0.5941534549572780
18	0.0600087360885962	-0.6561732134320110
19	0.0600087360885962	0.6561732134320110
20	0.0556726903409163	-0.7140444358945347
21	0.0556726903409163	0.7140444358945347
22	0.0509846652921294	-0.7674012429310635
23	0.0509846652921294	0.7674012429310635
24	0.0459743011089166	-0.8159062974301431
25	0.0459743011089166	0.8159062974301431
26	0.0406732768479338	-0.8592529379999062
27	0.0406732768479338	0.8592529379999062
28	0.0351151114981313	-0.8971671192929929
29	0.0351151114981313	0.8971671192929929
30	0.0293349559839034	-0.9294091484867383
31	0.0293349559839034	0.9294091484867383
32	0.0233693848321782	-0.9557752123246522
33	0.0233693848321782	0.9557752123246522
34	0.0172562290937249	-0.9760987093334711
35	0.0172562290937249	0.9760987093334711
36	0.0110347889391646	-0.9902515368546860

i	weight - w_i	abscissa - x_i
37	0.0110347889391646	0.9902515368546860
38	0.0047529446916351	-0.9981473830664329
39	0.0047529446916351	0.9981473830664329

n = 40jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0775059479784248	-0.0387724175060508
2	0.0775059479784248	0.0387724175060508
3	0.0770398181642480	-0.1160840706752552
4	0.0770398181642480	0.1160840706752552
5	0.0761103619006262	-0.1926975807013711
6	0.0761103619006262	0.1926975807013711
7	0.0747231690579683	-0.2681521850072537
8	0.0747231690579683	0.2681521850072537
9	0.0728865823958041	-0.3419940908257585
10	0.0728865823958041	0.3419940908257585
11	0.0706116473912868	-0.4137792043716050
12	0.0706116473912868	0.4137792043716050
13	0.0679120458152339	-0.4830758016861787
14	0.0679120458152339	0.4830758016861787
15	0.0648040134566010	-0.5494671250951282
16	0.0648040134566010	0.5494671250951282
17	0.0613062424929289	-0.6125538896679802
18	0.0613062424929289	0.6125538896679802
19	0.0574397690993916	-0.6719566846141796
20	0.0574397690993916	0.6719566846141796
21	0.0532278469839368	-0.7273182551899271
22	0.0532278469839368	0.7273182551899271
23	0.0486958076350722	-0.7783056514265194
24	0.0486958076350722	0.7783056514265194
25	0.0438709081856733	-0.8246122308333117
26	0.0438709081856733	0.8246122308333117
27	0.0387821679744720	-0.8659595032122595
28	0.0387821679744720	0.8659595032122595
29	0.0334601952825478	-0.9020988069688743
30	0.0334601952825478	0.9020988069688743
31	0.0279370069800234	-0.9328128082786765
32	0.0279370069800234	0.9328128082786765

i	weight - w_i	abscissa - x_i
33	0.0222458491941670	-0.9579168192137917
34	0.0222458491941670	0.9579168192137917
35	0.0164210583819079	-0.9772599499837743
36	0.0164210583819079	0.9772599499837743
37	0.0104982845311528	-0.9907262386994570
38	0.0104982845311528	0.9907262386994570
39	0.0045212770985332	-0.9982377097105593
40	0.0045212770985332	0.9982377097105593

n = 41

jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0756955356472984	0.0000000000000000
2	0.0754787470927158	-0.0756232589891630
3	0.0754787470927158	0.0756232589891630
4	0.0748296231762215	-0.1508133548639922
5	0.0748296231762215	0.1508133548639922
6	0.0737518820272235	-0.2251396056334228
7	0.0737518820272235	0.2251396056334228
8	0.0722516968610231	-0.2981762773418249
9	0.0722516968610231	0.2981762773418249
10	0.0703376606208175	-0.3695050226404815
11	0.0703376606208175	0.3695050226404815
12	0.0680207367608768	-0.4387172770514071
13	0.0680207367608768	0.4387172770514071
14	0.0653141964535274	-0.5054165991994061
15	0.0653141964535274	0.5054165991994061
16	0.0622335425809663	-0.5692209416102159
17	0.0622335425809663	0.5692209416102159
18	0.0587964209498719	-0.6297648390721963
19	0.0587964209498719	0.6297648390721963
20	0.0550225192425787	-0.6867015020349513
21	0.0550225192425787	0.6867015020349513
22	0.0509334542946175	-0.7397048030699261
23	0.0509334542946175	0.7397048030699261
24	0.0465526483690143	-0.7884711450474093
25	0.0465526483690143	0.7884711450474093
26	0.0419051951959097	-0.8327212004013613
27	0.0419051951959097	0.8327212004013613

i	weight - w_i	abscissa - x_i
28	0.0370177167035080	-0.8722015116924414
29	0.0370177167035080	0.8722015116924414
30	0.0319182117316993	-0.9066859447581012
31	0.0319182117316993	0.9066859447581012
32	0.0266358992071104	-0.9359769874978539
33	0.0266358992071104	0.9359769874978539
34	0.0212010633687796	-0.9599068917303463
35	0.0212010633687796	0.9599068917303463
36	0.0156449384078186	-0.9783386735610834
37	0.0156449384078186	0.9783386735610834
38	0.0099999387739059	-0.9911671096990163
39	0.0099999387739059	0.9911671096990163
40	0.0043061403581649	-0.9983215885747715
41	0.0043061403581649	0.9983215885747715

n = 42jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0738642342321729	-0.0369489431653518
2	0.0738642342321729	0.0369489431653518
3	0.0734608134534675	-0.1106450272085199
4	0.0734608134534675	0.1106450272085199
5	0.0726561752438041	-0.1837368065648546
6	0.0726561752438041	0.1837368065648546
7	0.0714547142651710	-0.2558250793428791
8	0.0714547142651710	0.2558250793428791
9	0.0698629924925942	-0.3265161244654115
10	0.0698629924925942	0.3265161244654115
11	0.0678897033765219	-0.3954238520429750
12	0.0678897033765219	0.3954238520429750
13	0.0655456243649090	-0.4621719120704219
14	0.0655456243649090	0.4621719120704219
15	0.0628435580450026	-0.5263957499311923
16	0.0628435580450026	0.5263957499311923
17	0.0597982622275867	-0.5877445974851093
18	0.0597982622275867	0.5877445974851093
19	0.0564263693580184	-0.6458833888692478
20	0.0564263693580184	0.6458833888692478
21	0.0527462956991741	-0.7004945905561712

i	weight - w_i	abscissa - x_i
22	0.0527462956991741	0.7004945905561712
23	0.0487781407928032	-0.7512799356894805
24	0.0487781407928032	0.7512799356894805
25	0.0445435777719659	-0.7979620532554874
26	0.0445435777719659	0.7979620532554874
27	0.0400657351806923	-0.8402859832618169
28	0.0400657351806923	0.8402859832618169
29	0.0353690710975921	-0.8780205698121727
30	0.0353690710975921	0.8780205698121727
31	0.0304792406996035	-0.9109597249041275
32	0.0304792406996035	0.9109597249041275
33	0.0254229595261130	-0.9389235573549882
34	0.0254229595261130	0.9389235573549882
35	0.0202278695690526	-0.9617593653382045
36	0.0202278695690526	0.9617593653382045
37	0.0149224436973575	-0.9793425080637482
38	0.0149224436973575	0.9793425080637482
39	0.0095362203017485	-0.9915772883408609
40	0.0095362203017485	0.9915772883408609
41	0.0041059986046491	-0.9983996189900625
42	0.0041059986046491	0.9983996189900625

n = 43

jump to n = 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64

i	weight - w_i	abscissa - x_i
1	0.0722157516937990	0.0000000000000000
2	0.0720275019714220	-0.0721529908745862
3	0.0720275019714220	0.0721529908745862
4	0.0714637342525141	-0.1439298095107133
5	0.0714637342525141	0.1439298095107133
6	0.0705273877650850	-0.2149562448605182
7	0.0705273877650850	0.2149562448605182
8	0.0692233441936567	-0.2848619980329136
9	0.0692233441936567	0.2848619980329136
10	0.0675584022293652	-0.3532826128643038
11	0.0675584022293652	0.3532826128643038
12	0.0655412421263228	-0.4198613760292693
13	0.0655412421263228	0.4198613760292693
14	0.0631823804493961	-0.4842511767857347

i	weight - w_i	abscissa - x_i
15	0.0631823804493961	0.4842511767857347
16	0.0604941152499913	-0.5461163166600848
17	0.0604941152499913	0.5461163166600848
18	0.0574904619569105	-0.6051342596396010
19	0.0574904619569105	0.6051342596396010
20	0.0541870803188818	-0.6609973137514982
21	0.0541870803188818	0.6609973137514982
22	0.0506011927843902	-0.7134142352689571
23	0.0506011927843902	0.7134142352689571
24	0.0467514947543466	-0.7621117471949551
25	0.0467514947543466	0.7621117471949551
26	0.0426580571979821	-0.8068359641369386
27	0.0426580571979821	0.8068359641369386
28	0.0383422221941327	-0.8473537162093151
29	0.0383422221941327	0.8473537162093151
30	0.0338264920868603	-0.8834537652186168
31	0.0338264920868603	0.8834537652186168
32	0.0291344132614985	-0.9149479072061387
33	0.0291344132614985	0.9149479072061387
34	0.0242904566138388	-0.9416719568476378
35	0.0242904566138388	0.9416719568476378
36	0.0193199014236839	-0.9634866130140800
37	0.0193199014236839	0.9634866130140800
38	0.0142487564315765	-0.9802782209802553
39	0.0142487564315765	0.9802782209802553
40	0.0091039966374014	-0.9919595575932442
41	0.0091039966374014	0.9919595575932442
42	0.0039194902538441	-0.9984723322425078
43	0.0039194902538441	0.9984723322425078

n = 44jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0705491577893541	-0.0352892369641354
2	0.0705491577893541	0.0352892369641354
3	0.0701976854735582	-0.1056919017086533
4	0.0701976854735582	0.1056919017086533
5	0.0694964918615726	-0.1755680147755168
6	0.0694964918615726	0.1755680147755168

i	weight - w_i	abscissa - x_i
7	0.0684490702693667	-0.2445694569282013
8	0.0684490702693667	0.2445694569282013
9	0.0670606389062937	-0.3123524665027858
10	0.0670606389062937	0.3123524665027858
11	0.0653381148791814	-0.3785793520147072
12	0.0653381148791814	0.3785793520147072
13	0.0632900797332039	-0.4429201745254115
14	0.0632900797332039	0.4429201745254115
15	0.0609267367015620	-0.5050543913882023
16	0.0609267367015620	0.5050543913882023
17	0.0582598598775955	-0.5646724531854708
18	0.0582598598775955	0.5646724531854708
19	0.0553027355637281	-0.6214773459035758
20	0.0553027355637281	0.6214773459035758
21	0.0520700960917045	-0.6751860706661224
22	0.0520700960917045	0.6751860706661224
23	0.0485780464483520	-0.7255310536607170
24	0.0485780464483520	0.7255310536607170
25	0.0448439840819700	-0.7722614792487559
26	0.0448439840819700	0.7722614792487559
27	0.0408865123103462	-0.8151445396451350
28	0.0408865123103462	0.8151445396451350
29	0.0367253478138089	-0.8539665950047104
30	0.0367253478138089	0.8539665950047104
31	0.0323812228120698	-0.8885342382860432
32	0.0323812228120698	0.8885342382860432
33	0.0278757828212810	-0.9186752599841758
34	0.0278757828212810	0.9186752599841758
35	0.0232314819020192	-0.9442395091181941
36	0.0232314819020192	0.9442395091181941
37	0.0184714817368147	-0.9650996504224931
38	0.0184714817368147	0.9650996504224931
39	0.0136195867555800	-0.9811518330779140
40	0.0136195867555800	0.9811518330779140
41	0.0087004813675248	-0.9923163921385159
42	0.0087004813675248	0.9923163921385159
43	0.0037454048031128	-0.9985402006367742
44	0.0037454048031128	0.9985402006367742

n = 45

jump to n = 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64

<i>i</i>	weight - w_i	abscissa - x_i
1	0.0690418248292320	0.0000000000000000
2	0.0688773169776613	-0.0689869801631442
3	0.0688773169776613	0.0689869801631442
4	0.0683845773786697	-0.1376452059832530
5	0.0683845773786697	0.1376452059832530
6	0.0675659541636075	-0.2056474897832637
7	0.0675659541636075	0.2056474897832637
8	0.0664253484498425	-0.2726697697523776
9	0.0664253484498425	0.2726697697523776
10	0.0649681957507234	-0.3383926542506022
11	0.0649681957507234	0.3383926542506022
12	0.0632014400738199	-0.4025029438585419
13	0.0632014400738199	0.4025029438585419
14	0.0611335008310665	-0.4646951239196351
15	0.0611335008310665	0.4646951239196351
16	0.0587742327188417	-0.5246728204629161
17	0.0587742327188417	0.5246728204629161
18	0.0561348787597865	-0.5821502125693532
19	0.0561348787597865	0.5821502125693532
20	0.0532280167312690	-0.6368533944532233
21	0.0532280167312690	0.6368533944532233
22	0.0500674992379520	-0.6885216807712006
23	0.0500674992379520	0.6885216807712006
24	0.0466683877183734	-0.7369088489454904
25	0.0466683877183734	0.7369088489454904
26	0.0430468807091650	-0.7817843125939062
27	0.0430468807091650	0.7817843125939062
28	0.0392202367293025	-0.8229342205020863
29	0.0392202367293025	0.8229342205020863
30	0.0352066922016090	-0.8601624759606642
31	0.0352066922016090	0.8601624759606642
32	0.0310253749345155	-0.8932916717532418
33	0.0310253749345155	0.8932916717532418
34	0.0266962139675777	-0.9221639367190004
35	0.0266962139675777	0.9221639367190004
36	0.0222398475505787	-0.9466416909956291

i	weight - w_i	abscissa - x_i
37	0.0222398475505787	0.9466416909956291
38	0.0176775352579376	-0.9666083103968947
39	0.0176775352579376	0.9666083103968947
40	0.0130311049915828	-0.9819687150345405
41	0.0130311049915828	0.9819687150345405
42	0.0083231892962182	-0.9926499984472037
43	0.0083231892962182	0.9926499984472037
44	0.0035826631552836	-0.9986036451819367
45	0.0035826631552836	0.9986036451819367

n = 46

jump to n = 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64

i	weight - w_i	abscissa - x_i
1	0.0675186858490365	-0.0337721900160520
2	0.0675186858490365	0.0337721900160520
3	0.0672106136006782	-0.1011624753055842
4	0.0672106136006782	0.1011624753055842
5	0.0665958747684549	-0.1680911794671035
6	0.0665958747684549	0.1680911794671035
7	0.0656772742677812	-0.2342529222062698
8	0.0656772742677812	0.2342529222062698
9	0.0644590034671391	-0.2993458227018700
10	0.0644590034671391	0.2993458227018700
11	0.0629466210643945	-0.3630728770209957
12	0.0629466210643945	0.3630728770209957
13	0.0611470277246505	-0.4251433132828284
14	0.0611470277246505	0.4251433132828284
15	0.0590684345955463	-0.4852739183881646
16	0.0590684345955463	0.4852739183881646
17	0.0567203258439912	-0.5431903302618026
18	0.0567203258439912	0.5431903302618026
19	0.0541134153858568	-0.5986282897127152
20	0.0541134153858568	0.5986282897127152
21	0.0512595980071430	-0.6513348462019977
22	0.0512595980071430	0.6513348462019977
23	0.0481718951017122	-0.7010695120204057
24	0.0481718951017122	0.7010695120204057
25	0.0448643952773181	-0.7476053596156661
26	0.0448643952773181	0.7476053596156661

i	weight - w_i	abscissa - x_i
27	0.0413521901096787	-0.7907300570752742
28	0.0413521901096787	0.7907300570752742
29	0.0376513053573861	-0.8302468370660661
30	0.0376513053573861	0.8302468370660661
31	0.0337786279991069	-0.8659753948668580
32	0.0337786279991069	0.8659753948668580
33	0.0297518295522028	-0.8977527115339420
34	0.0297518295522028	0.8977527115339420
35	0.0255892863971300	-0.9254337988067539
36	0.0255892863971300	0.9254337988067539
37	0.0213099987541365	-0.9488923634460898
38	0.0213099987541365	0.9488923634460898
39	0.0169335140078362	-0.9680213918539919
40	0.0169335140078362	0.9680213918539919
41	0.0124798837709887	-0.9827336698041669
42	0.0124798837709887	0.9827336698041669
43	0.0079698982297246	-0.9929623489061744
44	0.0079698982297246	0.9929623489061744
45	0.0034303008681070	-0.9986630421338180
46	0.0034303008681070	0.9986630421338180

n = 47jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0661351296236555	0.0000000000000000
2	0.0659905335888105	-0.0660869239163557
3	0.0659905335888105	0.0660869239163557
4	0.0655573777665497	-0.1318848665545149
5	0.0655573777665497	0.1318848665545149
6	0.0648375562389457	-0.1971061102791118
7	0.0648375562389457	0.1971061102791118
8	0.0638342166057170	-0.2614654592149745
9	0.0638342166057170	0.2614654592149745
10	0.0625517462209217	-0.3246814863377359
11	0.0625517462209217	0.3246814863377359
12	0.0609957530087396	-0.3864777640846672
13	0.0609957530087396	0.3864777640846672
14	0.0591730409423389	-0.4465840731048557
15	0.0591730409423389	0.4465840731048557

i	weight - w_i	abscissa - x_i
16	0.0570915802932315	-0.5047375838635779
17	0.0570915802932315	0.5047375838635779
18	0.0547604727815302	-0.5606840059346642
19	0.0547604727815302	0.5606840059346642
20	0.0521899117800571	-0.6141786999563736
21	0.0521899117800571	0.6141786999563736
22	0.0493911377473612	-0.6649877473903327
23	0.0493911377473612	0.6649877473903327
24	0.0463763890865059	-0.7128889734090643
25	0.0463763890865059	0.7128889734090643
26	0.0431588486484795	-0.7576729184454386
27	0.0431588486484795	0.7576729184454386
28	0.0397525861225310	-0.7991437541677420
29	0.0397525861225310	0.7991437541677420
30	0.0361724965841749	-0.8371201398999021
31	0.0361724965841749	0.8371201398999021
32	0.0324342355151848	-0.8714360157968963
33	0.0324342355151848	0.8714360157968963
34	0.0285541507006434	-0.9019413294385253
35	0.0285541507006434	0.9019413294385253
36	0.0245492116596588	-0.9285026930123607
37	0.0245492116596588	0.9285026930123607
38	0.0204369381476684	-0.9510039692577085
39	0.0204369381476684	0.9510039692577085
40	0.0162353331464331	-0.9693467873265645
41	0.0162353331464331	0.9693467873265645
42	0.0119628484643123	-0.9834510030716237
43	0.0119628484643123	0.9834510030716237
44	0.0076386162958488	-0.9932552109877686
45	0.0076386162958488	0.9932552109877686
46	0.0032874538425280	-0.9987187285842121
47	0.0032874538425280	0.9987187285842121

n = 48jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0647376968126839	-0.0323801709628694
2	0.0647376968126839	0.0323801709628694
3	0.0644661644359501	-0.0970046992094627

i	weight - w_i	abscissa - x_i
4	0.0644661644359501	0.0970046992094627
5	0.0639242385846482	-0.1612223560688917
6	0.0639242385846482	0.1612223560688917
7	0.0631141922862540	-0.2247637903946891
8	0.0631141922862540	0.2247637903946891
9	0.0620394231598927	-0.2873624873554556
10	0.0620394231598927	0.2873624873554556
11	0.0607044391658939	-0.3487558862921608
12	0.0607044391658939	0.3487558862921608
13	0.0591148396983956	-0.4086864819907167
14	0.0591148396983956	0.4086864819907167
15	0.0572772921004032	-0.4669029047509584
16	0.0572772921004032	0.4669029047509584
17	0.0551995036999842	-0.5231609747222330
18	0.0551995036999842	0.5231609747222330
19	0.0528901894851937	-0.5772247260839727
20	0.0528901894851937	0.5772247260839727
21	0.0503590355538545	-0.6288673967765136
22	0.0503590355538545	0.6288673967765136
23	0.0476166584924905	-0.6778723796326639
24	0.0476166584924905	0.6778723796326639
25	0.0446745608566943	-0.7240341309238146
26	0.0446745608566943	0.7240341309238146
27	0.0415450829434647	-0.7671590325157404
28	0.0415450829434647	0.7671590325157404
29	0.0382413510658307	-0.8070662040294426
30	0.0382413510658307	0.8070662040294426
31	0.0347772225647704	-0.8435882616243935
32	0.0347772225647704	0.8435882616243935
33	0.0311672278327981	-0.8765720202742479
34	0.0311672278327981	0.8765720202742479
35	0.0274265097083569	-0.9058791367155696
36	0.0274265097083569	0.9058791367155696
37	0.0235707608393244	-0.9313866907065543
38	0.0235707608393244	0.9313866907065543
39	0.0196161604573555	-0.9529877031604309
40	0.0196161604573555	0.9529877031604309
41	0.0155793157229438	-0.9705915925462473
42	0.0155793157229438	0.9705915925462473

i	weight - w_i	abscissa - x_i
43	0.0114772345792345	-0.9841245837228269
44	0.0114772345792345	0.9841245837228269
45	0.0073275539012763	-0.9935301722663508
46	0.0073275539012763	0.9935301722663508
47	0.0031533460523058	-0.9987710072524261
48	0.0031533460523058	0.9987710072524261

n = 49jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0634632814047906	0.0000000000000000
2	0.0633355092964917	-0.0634206849826868
3	0.0633355092964917	0.0634206849826868
4	0.0629527074651957	-0.1265859972696720
5	0.0629527074651957	0.1265859972696720
6	0.0623164173200573	-0.1892415924618136
7	0.0623164173200573	0.1892415924618136
8	0.0614292009791929	-0.2511351786125773
9	0.0614292009791929	0.2511351786125773
10	0.0602946309531520	-0.3120175321197488
11	0.0602946309531520	0.3120175321197488
12	0.0589172757600273	-0.3716435012622849
13	0.0589172757600273	0.3716435012622849
14	0.0573026815301875	-0.4297729933415765
15	0.0573026815301875	0.4297729933415765
16	0.0554573496748036	-0.4861719414524920
17	0.0554573496748036	0.4861719414524920
18	0.0533887107082590	-0.5406132469917261
19	0.0533887107082590	0.5406132469917261
20	0.0511050943301446	-0.5928776941089007
21	0.0511050943301446	0.5928776941089007
22	0.0486156958878282	-0.6427548324192377
23	0.0486156958878282	0.6427548324192377
24	0.0459305393555959	-0.6900438244251321
25	0.0459305393555959	0.6900438244251321
26	0.0430604369812596	-0.7345542542374027
27	0.0430604369812596	0.7345542542374027
28	0.0400169457663730	-0.7761068943454467
29	0.0400169457663730	0.7761068943454467

i	weight - w_i	abscissa - x_i
30	0.0368123209630007	-0.8145344273598555
31	0.0368123209630007	0.8145344273598555
32	0.0334594667916222	-0.8496821198441658
33	0.0334594667916222	0.8496821198441658
34	0.0299718846205838	-0.8814084455730089
35	0.0299718846205838	0.8814084455730089
36	0.0263636189270660	-0.9095856558280733
37	0.0263636189270660	0.9095856558280733
38	0.0226492015874467	-0.9341002947558101
39	0.0226492015874467	0.9341002947558101
40	0.0188435958530895	-0.9548536586741372
41	0.0188435958530895	0.9548536586741372
42	0.0149621449356247	-0.9717622009015554
43	0.0149621449356247	0.9717622009015554
44	0.0110205510315936	-0.9847578959142130
45	0.0110205510315936	0.9847578959142130
46	0.0070350995900865	-0.9937886619441678
47	0.0070350995900865	0.9937886619441678
48	0.0030272789889229	-0.9988201506066354
49	0.0030272789889229	0.9988201506066354

n = 50jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0621766166553473	-0.0310983383271889
2	0.0621766166553473	0.0310983383271889
3	0.0619360674206832	-0.0931747015600861
4	0.0619360674206832	0.0931747015600861
5	0.0614558995903167	-0.1548905899981459
6	0.0614558995903167	0.1548905899981459
7	0.0607379708417702	-0.2160072368760418
8	0.0607379708417702	0.2160072368760418
9	0.0597850587042655	-0.2762881937795320
10	0.0597850587042655	0.2762881937795320
11	0.0586008498132224	-0.3355002454194373
12	0.0586008498132224	0.3355002454194373
13	0.0571899256477284	-0.3934143118975651
14	0.0571899256477284	0.3934143118975651
15	0.0555577448062125	-0.4498063349740388

i	weight - w_i	abscissa - x_i
16	0.0555577448062125	0.4498063349740388
17	0.0537106218889962	-0.5044581449074642
18	0.0537106218889962	0.5044581449074642
19	0.0516557030695811	-0.5571583045146501
20	0.0516557030695811	0.5571583045146501
21	0.0494009384494663	-0.6077029271849502
22	0.0494009384494663	0.6077029271849502
23	0.0469550513039484	-0.6558964656854394
24	0.0469550513039484	0.6558964656854394
25	0.0443275043388033	-0.7015524687068222
26	0.0443275043388033	0.7015524687068222
27	0.0415284630901477	-0.7444943022260685
28	0.0415284630901477	0.7444943022260685
29	0.0385687566125877	-0.7845558329003993
30	0.0385687566125877	0.7845558329003993
31	0.0354598356151462	-0.8215820708593360
32	0.0354598356151462	0.8215820708593360
33	0.0322137282235780	-0.8554297694299461
34	0.0322137282235780	0.8554297694299461
35	0.0288429935805352	-0.8859679795236131
36	0.0288429935805352	0.8859679795236131
37	0.0253606735700124	-0.9130785566557919
38	0.0253606735700124	0.9130785566557919
39	0.0217802431701248	-0.9366566189448780
40	0.0217802431701248	0.9366566189448780
41	0.0181155607134894	-0.9566109552428079
42	0.0181155607134894	0.9566109552428079
43	0.0143808227614856	-0.9728643851066920
44	0.0143808227614856	0.9728643851066920
45	0.0105905483836510	-0.9853540840480058
46	0.0105905483836510	0.9853540840480058
47	0.0067597991957454	-0.9940319694320907
48	0.0067597991957454	0.9940319694320907
49	0.0029086225531551	-0.9988664044200710
50	0.0029086225531551	0.9988664044200710

n = 51jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0609989248412059	0.0000000000000000
2	0.0608854648448563	-0.0609611001505787
3	0.0608854648448563	0.0609611001505787
4	0.0605455069347378	-0.1216954210188888
5	0.0605455069347378	0.1216954210188888
6	0.0599803157775033	-0.1819770269570775
7	0.0599803157775033	0.1819770269570775
8	0.0591919939229615	-0.2415816664477987
9	0.0591919939229615	0.2415816664477987
10	0.0581834739825921	-0.3002876063353319
11	0.0581834739825921	0.3002876063353319
12	0.0569585077202587	-0.3578764566884095
13	0.0569585077202587	0.3578764566884095
14	0.0555216520957387	-0.4141339832263039
15	0.0555216520957387	0.4141339832263039
16	0.0538782523130456	-0.4688509042860410
17	0.0538782523130456	0.4688509042860410
18	0.0520344219366971	-0.5218236693661858
19	0.0520344219366971	0.5218236693661858
20	0.0499970201500574	-0.5728552163513039
21	0.0499970201500574	0.5728552163513039
22	0.0477736262406231	-0.6217557046007233
23	0.0477736262406231	0.6217557046007233
24	0.0453725114076501	-0.6683432211753700
25	0.0453725114076501	0.6683432211753700
26	0.0428026079978801	-0.7124444575770367
27	0.0428026079978801	0.7124444575770367
28	0.0400734762854965	-0.7538953544853755
29	0.0400734762854965	0.7538953544853755
30	0.0371952689232603	-0.7925417120993812
31	0.0371952689232603	0.7925417120993812
32	0.0341786932041883	-0.8282397638230649
33	0.0341786932041883	0.8282397638230649
34	0.0310349712901600	-0.8608567111822923
35	0.0310349712901600	0.8608567111822923
36	0.0277757985941625	-0.8902712180295274
37	0.0277757985941625	0.8902712180295274
38	0.0244133005737814	-0.9163738623097802
39	0.0244133005737814	0.9163738623097802

i	weight - w_i	abscissa - x_i
40	0.0209599884017032	-0.9390675440029623
41	0.0209599884017032	0.9390675440029623
42	0.0174287147234011	-0.9582678486139082
43	0.0174287147234011	0.9582678486139082
44	0.0138326340064778	-0.9739033680193239
45	0.0138326340064778	0.9739033680193239
46	0.0101851912978217	-0.9859159917359029
47	0.0101851912978217	0.9859159917359029
48	0.0065003377832526	-0.9942612604367526
49	0.0065003377832526	0.9942612604367526
50	0.0027968071710899	-0.9989099908489035
51	0.0027968071710899	0.9989099908489035

n = 52jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0598103657452919	-0.0299141097973388
2	0.0598103657452919	0.0299141097973388
3	0.0595962601712482	-0.0896352446489006
4	0.0595962601712482	0.0896352446489006
5	0.0591688154660430	-0.1490355086069492
6	0.0591688154660430	0.1490355086069492
7	0.0585295617718139	-0.2079022641563661
8	0.0585295617718139	0.2079022641563661
9	0.0576807874525268	-0.2660247836050018
10	0.0576807874525268	0.2660247836050018
11	0.0566255309023686	-0.3231950034348078
12	0.0566255309023686	0.3231950034348078
13	0.0553675696693027	-0.3792082691160937
14	0.0553675696693027	0.3792082691160937
15	0.0539114069327573	-0.4338640677187617
16	0.0539114069327573	0.4338640677187617
17	0.0522622553839070	-0.4869667456980961
18	0.0522622553839070	0.4869667456980961
19	0.0504260185663424	-0.5383262092858274
20	0.0504260185663424	0.5383262092858274
21	0.0484092697440749	-0.5877586049795791
22	0.0484092697440749	0.5877586049795791
23	0.0462192283727848	-0.6350869776952459

i	weight - w_i	abscissa - x_i
24	0.0462192283727848	0.6350869776952459
25	0.0438637342590004	-0.6801419042271677
26	0.0438637342590004	0.6801419042271677
27	0.0413512195005603	-0.7227620997499832
28	0.0413512195005603	0.7227620997499832
29	0.0386906783104240	-0.7627949951937449
30	0.0386906783104240	0.7627949951937449
31	0.0358916348350972	-0.8000972834304684
32	0.0358916348350972	0.8000972834304684
33	0.0329641090897188	-0.8345354323267345
34	0.0329641090897188	0.8345354323267345
35	0.0299185811471439	-0.8659861628460676
36	0.0299185811471439	0.8659861628460676
37	0.0267659537465040	-0.8943368905344953
38	0.0267659537465040	0.8943368905344953
39	0.0235175135539845	-0.9194861289164246
40	0.0235175135539845	0.9194861289164246
41	0.0201848915079808	-0.9413438536413591
42	0.0201848915079808	0.9413438536413591
43	0.0167800233963007	-0.9598318269330866
44	0.0167800233963007	0.9598318269330866
45	0.0133151149823410	-0.9748838842217445
46	0.0133151149823410	0.9748838842217445
47	0.0098026345794628	-0.9864461956515499
48	0.0098026345794628	0.9864461956515499
49	0.0062555239629733	-0.9944775909292161
50	0.0062555239629733	0.9944775909292161
51	0.0026913169500471	-0.998951111039503
52	0.0026913169500471	0.998951111039503

n = 53jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0587187941511644	0.0000000000000000
2	0.0586175862327203	-0.0586850543002595
3	0.0586175862327203	0.0586850543002595
4	0.0583143113622560	-0.1171678090719551
5	0.0583143113622560	0.1171678090719551
6	0.0578100149917132	-0.1752466621553257

i	weight - w_i	abscissa - x_i
7	0.0578100149917132	0.1752466621553257
8	0.0571064355362672	-0.2327214037242726
9	0.0571064355362672	0.2327214037242726
10	0.0562059983817397	-0.2893939064516262
11	0.0562059983817397	0.2893939064516262
12	0.0551118075239336	-0.3450688084957224
13	0.0551118075239336	0.3450688084957224
14	0.0538276348687310	-0.3995541869539530
15	0.0538276348687310	0.3995541869539530
16	0.0523579072298727	-0.4526622194618458
17	0.0523579072298727	0.4526622194618458
18	0.0507076910692927	-0.5042098316571334
19	0.0507076910692927	0.5042098316571334
20	0.0488826750326991	-0.5540193282770679
21	0.0488826750326991	0.5540193282770679
22	0.0468891503407503	-0.6019190057137693
23	0.0468891503407503	0.6019190057137693
24	0.0447339891036728	-0.6477437439165100
25	0.0447339891036728	0.6477437439165100
26	0.0424246206345200	-0.6913355756013667
27	0.0424246206345200	0.6913355756013667
28	0.0399690058435404	-0.7325442308075103
29	0.0399690058435404	0.7325442308075103
30	0.0373756098034829	-0.7712276549255324
31	0.0373756098034829	0.7712276549255324
32	0.0346533725835342	-0.8072524984168955
33	0.0346533725835342	0.8072524984168955
34	0.0318116784590193	-0.8404945765458014
35	0.0318116784590193	0.8404945765458014
36	0.0288603236178237	-0.8708392975582413
37	0.0288603236178237	0.8708392975582413
38	0.0258094825107575	-0.8981820578754266
39	0.0258094825107575	0.8981820578754266
40	0.0226696730570702	-0.9224286030428122
41	0.0226696730570702	0.9224286030428122
42	0.0194517211076369	-0.9434953534644419
43	0.0194517211076369	0.9434953534644419
44	0.0161667252566875	-0.9613096946231363
45	0.0161667252566875	0.9613096946231363

i	weight - w_i	abscissa - x_i
46	0.0128260261442404	-0.9758102337149845
47	0.0128260261442404	0.9758102337149845
48	0.0094412022849403	-0.9869470350233716
49	0.0094412022849403	0.9869470350233716
50	0.0060242762269487	-0.9946819193080071
51	0.0060242762269487	0.9946819193080071
52	0.0025916837205670	-0.9989899477763282
53	0.0025916837205670	0.9989899477763282

n = 54jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0576175367071470	-0.0288167481993418
2	0.0576175367071470	0.0288167481993418
3	0.0574261370541121	-0.0863545182632482
4	0.0574261370541121	0.0863545182632482
5	0.0570439735587946	-0.1436054273162561
6	0.0570439735587946	0.1436054273162561
7	0.0564723157306260	-0.2003792936062136
8	0.0564723157306260	0.2003792936062136
9	0.0557130625605900	-0.2564875200699973
10	0.0557130625605900	0.2564875200699973
11	0.0547687362130580	-0.3117437208344682
12	0.0547687362130580	0.3117437208344682
13	0.0536424736475536	-0.3659643403721912
14	0.0536424736475536	0.3659643403721912
15	0.0523380161982987	-0.4189692632552045
16	0.0523380161982987	0.4189692632552045
17	0.0508596971461881	-0.4705824124813823
18	0.0508596971461881	0.4705824124813823
19	0.0492124273245289	-0.5206323343859330
20	0.0492124273245289	0.5206323343859330
21	0.0474016788064450	-0.5689527681952095
22	0.0474016788064450	0.5689527681952095
23	0.0454334667282767	-0.6153831983311274
24	0.0454334667282767	0.6153831983311274
25	0.0433143293095970	-0.6597693876319831
26	0.0433143293095970	0.6597693876319831
27	0.0410513061366450	-0.7019638897191729

i	weight - w_i	abscissa - x_i
28	0.0410513061366450	0.7019638897191729
29	0.0386519147821025	-0.7418265388091844
30	0.0386519147821025	0.7418265388091844
31	0.0361241258403836	-0.7792249153462540
32	0.0361241258403836	0.7792249153462540
33	0.0334763364643726	-0.8140347859135678
34	0.0334763364643726	0.8140347859135678
35	0.0307173424978707	-0.8461405159707730
36	0.0307173424978707	0.8461405159707730
37	0.0278563093105959	-0.8754354540655689
38	0.0278563093105959	0.8754354540655689
39	0.0249027414672088	-0.9018222862847016
40	0.0249027414672088	0.9018222862847016
41	0.0218664514228531	-0.9252133598666515
42	0.0218664514228531	0.9252133598666515
43	0.0187575276214694	-0.9455309751649958
44	0.0187575276214694	0.9455309751649958
45	0.0155863030359241	-0.9627076457859236
46	0.0155863030359241	0.9627076457859236
47	0.0123633281288476	-0.9766863288579032
48	0.0123633281288476	0.9766863288579032
49	0.0090993694555094	-0.9874206373973435
50	0.0090993694555094	0.9874206373973435
51	0.0058056110152400	-0.9948751170183389
52	0.0058056110152400	0.9948751170183389
53	0.0024974818357616	-0.9990266668673410
54	0.0024974818357616	0.9990266668673410

n = 55jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0566029764445604	0.0000000000000000
2	0.0565123182497720	-0.0565727538183368
3	0.0565123182497720	0.0565727538183368
4	0.0562406340710844	-0.1129642880593293
5	0.0562406340710844	0.1129642880593293
6	0.0557887941952841	-0.1689939636468732
7	0.0557887941952841	0.1689939636468732
8	0.0551582460025087	-0.2244823006478455

i	weight - w_i	abscissa - x_i
9	0.0551582460025087	0.2244823006478455
10	0.0543510093299111	-0.2792515532008065
11	0.0543510093299111	0.2792515532008065
12	0.0533696700016055	-0.3331262788900239
13	0.0533696700016055	0.3331262788900239
14	0.0522173715456321	-0.3859339007409794
15	0.0522173715456321	0.3859339007409794
16	0.0508978051244940	-0.4375052600371746
17	0.0508978051244940	0.4375052600371746
18	0.0494151977115517	-0.4876751581874741
19	0.0494151977115517	0.4876751581874741
20	0.0477742985512007	-0.5362828859083433
21	0.0477742985512007	0.5362828859083433
22	0.0459803639462838	-0.5831727380260321
23	0.0459803639462838	0.5831727380260321
24	0.0440391404216066	-0.6281945122499282
25	0.0440391404216066	0.6281945122499282
26	0.0419568463177188	-0.6712039903198264
27	0.0419568463177188	0.6712039903198264
28	0.0397401518743372	-0.7120633999866378
29	0.0397401518743372	0.7120633999866378
30	0.0373961578679655	-0.7506418563480219
31	0.0373961578679655	0.7506418563480219
32	0.0349323728735899	-0.7868157811276224
33	0.0349323728735899	0.7868157811276224
34	0.0323566892261858	-0.8204692985593209
35	0.0323566892261858	0.8204692985593209
36	0.0296773577651610	-0.8514946066171545
37	0.0296773577651610	0.8514946066171545
38	0.0269029614563963	-0.8797923224198955
39	0.0269029614563963	0.8797923224198955
40	0.0240423880097256	-0.9052718007440000
41	0.0240423880097256	0.9052718007440000
42	0.0211048016680165	-0.9278514247207917
43	0.0211048016680165	0.9278514247207917
44	0.0180996145207291	-0.9474588680412107
45	0.0180996145207291	0.9474588680412107
46	0.0150364583335118	-0.9640313285931352
47	0.0150364583335118	0.9640313285931352

i	weight - w_i	abscissa - x_i
48	0.0119251607198486	-0.9775157355039892
49	0.0119251607198486	0.9775157355039892
50	0.0087757461070585	-0.9878689411988892
51	0.0087757461070585	0.9878689411988892
52	0.0055986322665608	-0.9950579778474119
53	0.0055986322665608	0.9950579778474119
54	0.0024083236199798	-0.9990614195648185
55	0.0024083236199798	0.9990614195648185

n = 56jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0555797463065144	-0.0277970352872754
2	0.0555797463065144	0.0277970352872754
3	0.0554079525032451	-0.0833051868224354
4	0.0554079525032451	0.0833051868224354
5	0.0550648959017624	-0.1385558468103762
6	0.0550648959017624	0.1385558468103762
7	0.0545516368708894	-0.1933782386352753
8	0.0545516368708894	0.1933782386352753
9	0.0538697618657145	-0.2476029094343372
10	0.0538697618657145	0.2476029094343372
11	0.0530213785240108	-0.3010622538672207
12	0.0530213785240108	0.3010622538672207
13	0.0520091091517414	-0.3535910321749545
14	0.0520091091517414	0.3535910321749545
15	0.0508360826177985	-0.4050268809270913
16	0.0508360826177985	0.4050268809270913
17	0.0495059246830476	-0.4552108148784596
18	0.0495059246830476	0.4552108148784596
19	0.0480227467936003	-0.5039877183843817
20	0.0480227467936003	0.5039877183843817
21	0.0463911333730019	-0.5512068248555346
22	0.0463911333730019	0.5512068248555346
23	0.0446161276526923	-0.5967221827706634
24	0.0446161276526923	0.5967221827706634
25	0.0427032160846671	-0.6403931068070069
26	0.0427032160846671	0.6403931068070069
27	0.0406583113847445	-0.6820846126944704

i	weight - w_i	abscissa - x_i
28	0.0406583113847445	0.6820846126944704
29	0.0384877342592477	-0.7216678344501881
30	0.0384877342592477	0.7216678344501881
31	0.0361981938723152	-0.7590204227051289
32	0.0361981938723152	0.7590204227051289
33	0.0337967671156118	-0.7940269228938664
34	0.0337967671156118	0.7940269228938664
35	0.0312908767473104	-0.8265791321428817
36	0.0312908767473104	0.8265791321428817
37	0.0286882684738227	-0.8565764337627486
38	0.0286882684738227	0.8565764337627486
39	0.0259969870583920	-0.8839261083278276
40	0.0259969870583920	0.8839261083278276
41	0.0232253515625653	-0.9085436204206555
42	0.0232253515625653	0.9085436204206555
43	0.0203819298824026	-0.9303528802474963
44	0.0203819298824026	0.9303528802474963
45	0.0174755129114009	-0.9492864795619627
46	0.0174755129114009	0.9492864795619627
47	0.0145150892780215	-0.9652859019054901
48	0.0145150892780215	0.9652859019054901
49	0.0115098243403834	-0.9783017091402564
50	0.0115098243403834	0.9783017091402564
51	0.0084690631633079	-0.9882937155401615
52	0.0084690631633079	0.9882937155401615
53	0.0054025222460153	-0.9952312260810697
54	0.0054025222460153	0.9952312260810697
55	0.0023238553757732	-0.9990943438014656
56	0.0023238553757732	0.9990943438014656

n = 57jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0546343287565840	0.0000000000000000
2	0.0545528036047619	-0.0546071510016468
3	0.0545528036047619	0.0546071510016468
4	0.0543084714524986	-0.1090513328087878
5	0.0543084714524986	0.1090513328087878
6	0.0539020614832986	-0.1631700625912643

i	weight - w_i	abscissa - x_i
7	0.0539020614832986	0.1631700625912643
8	0.0533347865848192	-0.2168018287961240
9	0.0533347865848192	0.2168018287961240
10	0.0526083397291774	-0.2697865731618387
11	0.0526083397291774	0.2697865731618387
12	0.0517248889205178	-0.3219661683953786
13	0.0517248889205178	0.3219661683953786
14	0.0506870707249274	-0.3731848900865944
15	0.0506870707249274	0.3731848900865944
16	0.0494979824020197	-0.4232898814515639
17	0.0494979824020197	0.4232898814515639
18	0.0481611726616877	-0.4721316095179757
19	0.0481611726616877	0.4721316095179757
20	0.0466806310736415	-0.5195643113911876
21	0.0466806310736415	0.5195643113911876
22	0.0450607761613812	-0.5654464292692367
23	0.0450607761613812	0.5654464292692367
24	0.0433064422162152	-0.6096410329087154
25	0.0433064422162152	0.6096410329087154
26	0.0414228648708011	-0.6520162282809769
27	0.0414228648708011	0.6520162282809769
28	0.0394156654754801	-0.6924455511995178
29	0.0394156654754801	0.6924455511995178
30	0.0372908343244173	-0.7308083447445233
31	0.0372908343244173	0.7308083447445233
32	0.0350547127823126	-0.7669901193594502
33	0.0350547127823126	0.7669901193594502
34	0.0327139743663716	-0.8008828945472183
35	0.0327139743663716	0.8008828945472183
36	0.0302756048426940	-0.8323855211504391
37	0.0302756048426940	0.8323855211504391
38	0.0277468814021802	-0.8614039832620469
39	0.0277468814021802	0.8614039832620469
40	0.0251353509909181	-0.8878516788822214
41	0.0251353509909181	0.8878516788822214
42	0.0224488078907764	-0.9116496785213912
43	0.0224488078907764	0.9116496785213912
44	0.0196952706994885	-0.9327269610671017
45	0.0196952706994885	0.9327269610671017

i	weight - w_i	abscissa - x_i
46	0.0168829590234416	-0.9510206264478768
47	0.0168829590234416	0.9510206264478768
48	0.0140202707907536	-0.9664760851718867
49	0.0140202707907536	0.9664760851718867
50	0.0111157637323360	-0.9790472267094688
51	0.0111157637323360	0.9790472267094688
52	0.0081781600678212	-0.9886965776502220
53	0.0081781600678212	0.9886965776502220
54	0.0052165334747188	-0.9953955236784303
55	0.0052165334747188	0.9953955236784303
56	0.0022437538722507	-0.9991255656252629
57	0.0022437538722507	0.9991255656252629

n = 58jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0536811198633348	-0.0268470123659424
2	0.0536811198633348	0.0268470123659424
3	0.0535263433040583	-0.0804636302141427
4	0.0535263433040583	0.0804636302141427
5	0.0532172364465790	-0.1338482505954668
6	0.0532172364465790	0.1338482505954668
7	0.0527546905263708	-0.1868469518357613
8	0.0527546905263708	0.1868469518357613
9	0.0521400391836698	-0.2393069249661535
10	0.0521400391836698	0.2393069249661535
11	0.0513750546182857	-0.2910769143111092
12	0.0513750546182857	0.2910769143111092
13	0.0504619424799531	-0.3420076535979953
14	0.0504619424799531	0.3420076535979953
15	0.0494033355089624	-0.3919522963307531
16	0.0494033355089624	0.3919522963307531
17	0.0482022859454177	-0.4407668391868396
18	0.0482022859454177	0.4407668391868396
19	0.0468622567290263	-0.4883105372167185
20	0.0468622567290263	0.4883105372167185
21	0.0453871115148198	-0.5344463096488475
22	0.0453871115148198	0.5344463096488475
23	0.0437811035336403	-0.5790411351302250

i	weight - w_i	abscissa - x_i
24	0.0437811035336403	0.5790411351302250
25	0.0420488633295821	-0.6219664352630792
26	0.0420488633295821	0.6219664352630792
27	0.0401953854098678	-0.6630984453321253
28	0.0401953854098678	0.6630984453321253
29	0.0382260138458584	-0.7023185711539082
30	0.0382260138458584	0.7023185711539082
31	0.0361464268670873	-0.7395137310200423
32	0.0361464268670873	0.7395137310200423
33	0.0339626204934160	-0.7745766817496528
34	0.0339626204934160	0.7745766817496528
35	0.0316808912538093	-0.8074063279130882
36	0.0316808912538093	0.8074063279130882
37	0.0293078180441605	-0.8379080133393734
38	0.0293078180441605	0.8379080133393734
39	0.0268502431819819	-0.8659937940748075
40	0.0268502431819819	0.8659937940748075
41	0.0243152527249640	-0.8915826920220302
42	0.0243152527249640	0.8915826920220302
43	0.0217101561401462	-0.9146009285643525
44	0.0217101561401462	0.9146009285643525
45	0.0190424654618934	-0.9349821375882593
46	0.0190424654618934	0.9349821375882593
47	0.0163198742349710	-0.9526675575188691
48	0.0163198742349710	0.9526675575188691
49	0.0135502371129888	-0.9676062025029241
50	0.0135502371129888	0.9676062025029241
51	0.0107415535328788	-0.9797550146943503
52	0.0107415535328788	0.9797550146943503
53	0.0079019738499987	-0.9890790082484426
54	0.0079019738499987	0.9890790082484426
55	0.0050399816126502	-0.9955514765972909
56	0.0050399816126502	0.9955514765972909
57	0.0021677232496275	-0.9991552004073866
58	0.0021677232496275	0.9991552004073866

n = 59

jump to n = 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64

i	weight - w_i	abscissa - x_i
1	0.0527980126219904	0.0000000000000000
2	0.0527244338591279	-0.0527734840883100
3	0.0527244338591279	0.0527734840883100
4	0.0525039026478287	-0.1053998790163442
5	0.0525039026478287	0.1053998790163442
6	0.0521370336483754	-0.1577325055878580
7	0.0521370336483754	0.1577325055878580
8	0.0516248493908915	-0.2096255033920365
9	0.0516248493908915	0.2096255033920365
10	0.0509687774253939	-0.2609342373428117
11	0.0509687774253939	0.2609342373428117
12	0.0501706463429969	-0.3115157008030137
13	0.0501706463429969	0.3115157008030137
14	0.0492326806793620	-0.3612289141697948
15	0.0492326806793620	0.3612289141697948
16	0.0481574947146064	-0.4099353178104190
17	0.0481574947146064	0.4099353178104190
18	0.0469480851869620	-0.4574991582532667
19	0.0469480851869620	0.4574991582532667
20	0.0456078229405098	-0.5037878665577180
21	0.0456078229405098	0.5037878665577180
22	0.0441404435302974	-0.5486724278083964
23	0.0441404435302974	0.5486724278083964
24	0.0425500368110676	-0.5920277407040302
25	0.0425500368110676	0.5920277407040302
26	0.0408410355386867	-0.6337329662388501
27	0.0408410355386867	0.6337329662388501
28	0.0390182030161600	-0.6736718645049372
29	0.0390182030161600	0.6736718645049372
30	0.0370866198188709	-0.7117331186771977
31	0.0370866198188709	0.7117331186771977
32	0.0350516696364001	-0.7478106452786403
33	0.0350516696364001	0.7478106452786403
34	0.0329190242710453	-0.7818038898623609
35	0.0329190242710453	0.7818038898623609
36	0.0306946278361117	-0.8136181072882116
37	0.0306946278361117	0.8136181072882116
38	0.0283846802005348	-0.8431646258168722
39	0.0283846802005348	0.8431646258168722

i	weight - w_i	abscissa - x_i
40	0.0259956197312985	-0.8703610942928822
41	0.0259956197312985	0.8703610942928822
42	0.0235341053937134	-0.8951317117434721
43	0.0235341053937134	0.8951317117434721
44	0.0210069982884372	-0.9174074387881552
45	0.0210069982884372	0.9174074387881552
46	0.0184213427536100	-0.9371261903534539
47	0.0184213427536100	0.9371261903534539
48	0.0157843473130815	-0.9542330093769511
49	0.0157843473130815	0.9542330093769511
50	0.0131033663063452	-0.9686802216817816
51	0.0131033663063452	0.9686802216817816
52	0.0103858855009959	-0.9804275739567156
53	0.0103858855009959	0.9804275739567156
54	0.0076395294534876	-0.9894423651337310
55	0.0076395294534876	0.9894423651337310
56	0.0048722391682653	-0.9956996403832460
57	0.0048722391682653	0.9956996403832460
58	0.0020954922845412	-0.9991833539092947
59	0.0020954922845412	0.9991833539092947

n = 60jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0519078776312206	-0.0259597723012478
2	0.0519078776312206	0.0259597723012478
3	0.0517679431749102	-0.0778093339495366
4	0.0517679431749102	0.0778093339495366
5	0.0514884515009809	-0.1294491353969450
6	0.0514884515009809	0.1294491353969450
7	0.0510701560698556	-0.1807399648734254
8	0.0510701560698556	0.1807399648734254
9	0.0505141845325094	-0.2315435513760293
10	0.0505141845325094	0.2315435513760293
11	0.0498220356905502	-0.2817229374232617
12	0.0498220356905502	0.2817229374232617
13	0.0489955754557568	-0.3311428482684482
14	0.0489955754557568	0.3311428482684482
15	0.0480370318199712	-0.3796700565767980

i	weight - w_i	abscissa - x_i
16	0.0480370318199712	0.3796700565767980
17	0.0469489888489122	-0.4271737415830784
18	0.0469489888489122	0.4271737415830784
19	0.0457343797161145	-0.4735258417617071
20	0.0457343797161145	0.4735258417617071
21	0.0443964787957871	-0.5186014000585697
22	0.0443964787957871	0.5186014000585697
23	0.0429388928359356	-0.5622789007539445
24	0.0429388928359356	0.5622789007539445
25	0.0413655512355848	-0.6044405970485104
26	0.0413655512355848	0.6044405970485104
27	0.0396806954523808	-0.6449728284894770
28	0.0396806954523808	0.6449728284894770
29	0.0378888675692434	-0.6837663273813555
30	0.0378888675692434	0.6837663273813555
31	0.0359948980510845	-0.7207165133557304
32	0.0359948980510845	0.7207165133557304
33	0.0340038927249464	-0.7557237753065856
34	0.0340038927249464	0.7557237753065856
35	0.0319212190192963	-0.7886937399322641
36	0.0319212190192963	0.7886937399322641
37	0.0297524915007889	-0.8195375261621458
38	0.0297524915007889	0.8195375261621458
39	0.0275035567499248	-0.8481719847859296
40	0.0275035567499248	0.8481719847859296
41	0.0251804776215212	-0.8745199226468983
42	0.0251804776215212	0.8745199226468983
43	0.0227895169439978	-0.8985103108100460
44	0.0227895169439978	0.8985103108100460
45	0.0203371207294573	-0.9200784761776275
46	0.0203371207294573	0.9200784761776275
47	0.0178299010142077	-0.9391662761164232
48	0.0178299010142077	0.9391662761164232
49	0.0152746185967848	-0.9557222558399961
50	0.0152746185967848	0.9557222558399961
51	0.0126781664768160	-0.9697017887650528
52	0.0126781664768160	0.9697017887650528
53	0.0100475571822880	-0.9810672017525982
54	0.0100475571822880	0.9810672017525982

i	weight - w_i	abscissa - x_i
55	0.0073899311633455	-0.9897878952222218
56	0.0073899311633455	0.9897878952222218
57	0.0047127299269536	-0.9958405251188381
58	0.0047127299269536	0.9958405251188381
59	0.0020268119688738	-0.9992101232274361
60	0.0020268119688738	0.9992101232274361

n = 61jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

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i	weight - w_i	abscissa - x_i
1	0.0510811194407862	0.0000000000000000
2	0.0510144870386973	-0.0510589067079743
3	0.0510144870386973	0.0510589067079743
4	0.0508147636688183	-0.1019846065622741
5	0.0508147636688183	0.1019846065622741
6	0.0504824703867974	-0.1526442402308153
7	0.0504824703867974	0.1526442402308153
8	0.0500184741081783	-0.2029056425180585
9	0.0500184741081783	0.2029056425180585
10	0.0494239853467356	-0.2526376871690535
11	0.0494239853467356	0.2526376871690535
12	0.0487005550564115	-0.3017106289630307
13	0.0487005550564115	0.3017106289630307
14	0.0478500705850956	-0.3499964422040668
15	0.0478500705850956	0.3499964422040668
16	0.0468747507508091	-0.3973691547257566
17	0.0468747507508091	0.3973691547257566
18	0.0457771400531460	-0.4437051765385316
19	0.0457771400531460	0.4437051765385316
20	0.0445601020350835	-0.4888836222622521
21	0.0445601020350835	0.4888836222622521
22	0.0432268118124961	-0.5327866265029253
23	0.0432268118124961	0.5327866265029253
24	0.0417807477908885	-0.5752996513508306
25	0.0417807477908885	0.5752996513508306
26	0.0402256825909982	-0.6163117851979217
27	0.0402256825909982	0.6163117851979217
28	0.0385656732070082	-0.6557160320950709

i	weight - w_i	abscissa - x_i
29	0.0385656732070082	0.6557160320950709
30	0.0368050504231548	-0.6934095908944912
31	0.0368050504231548	0.6934095908944912
32	0.0349484075165334	-0.7292941234494651
33	0.0349484075165334	0.7292941234494651
34	0.0330005882759074	-0.7632760111723123
35	0.0330005882759074	0.7632760111723123
36	0.0309666743683974	-0.7952665992823597
37	0.0309666743683974	0.7952665992823597
38	0.0288519720881834	-0.8251824281086599
39	0.0288519720881834	0.8251824281086599
40	0.0266619985241509	-0.8529454508476635
41	0.0266619985241509	0.8529454508476635
42	0.0244024671875442	-0.8784832372148811
43	0.0244024671875442	0.8784832372148811
44	0.0220792731483190	-0.9017291624740011
45	0.0220792731483190	0.9017291624740011
46	0.0196984777461012	-0.9226225813829553
47	0.0196984777461012	0.9226225813829553
48	0.0172662929876137	-0.9411089866813611
49	0.0172662929876137	0.9411089866813611
50	0.0147890658849379	-0.9571401519129841
51	0.0147890658849379	0.9571401519129841
52	0.0122732635078121	-0.9706742588331829
53	0.0122732635078121	0.9706742588331829
54	0.0097254618303561	-0.9816760112840370
55	0.0097254618303561	0.9816760112840370
56	0.0071523549917491	-0.9901167452325170
57	0.0071523549917491	0.9901167452325170
58	0.0045609240060124	-0.9959745998151203
59	0.0045609240060124	0.9959745998151203
60	0.0019614533616703	-0.9992355976313635
61	0.0019614533616703	0.9992355976313635

n = 62

jump to n = 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64

i	weight - w_i	abscissa - x_i
1	0.0502480003752563	-0.0251292914218206
2	0.0502480003752563	0.0251292914218206

i	weight - w_i	abscissa - x_i
3	0.0501210695690433	-0.0753243954962343
4	0.0501210695690433	0.0753243954962343
5	0.0498675285949524	-0.1253292236158968
6	0.0498675285949524	0.1253292236158968
7	0.0494880179196993	-0.1750174592490156
8	0.0494880179196993	0.1750174592490156
9	0.0489834962205178	-0.2242635856041655
10	0.0489834962205178	0.2242635856041655
11	0.0483552379634777	-0.2729432026967263
12	0.0483552379634777	0.2729432026967263
13	0.0476048301841012	-0.3209333415941940
14	0.0476048301841012	0.3209333415941940
15	0.0467341684784155	-0.3681127750465645
16	0.0467341684784155	0.3681127750465645
17	0.0457454522145702	-0.4143623237171261
18	0.0457454522145702	0.4143623237171261
19	0.0446411789771244	-0.4595651572401134
20	0.0446411789771244	0.4595651572401134
21	0.0434241382580474	-0.5036070893447560
22	0.0434241382580474	0.5036070893447560
23	0.0420974044103851	-0.5463768663002511
24	0.0420974044103851	0.5463768663002511
25	0.0406643288824174	-0.5877664479530873
26	0.0406643288824174	0.5877664479530873
27	0.0391285317519631	-0.6276712806468852
28	0.0391285317519631	0.6276712806468852
29	0.0374938925822800	-0.6659905613354794
30	0.0374938925822800	0.6659905613354794
31	0.0357645406227681	-0.7026274922222970
32	0.0357645406227681	0.7026274922222970
33	0.0339448443794105	-0.7374895252831567
34	0.0339448443794105	0.7374895252831567
35	0.0320394005816247	-0.7704885960554193
36	0.0320394005816247	0.7704885960554193
37	0.0300530225739899	-0.8015413461039764
38	0.0300530225739899	0.8015413461039764
39	0.0279907281633146	-0.8305693336040049
40	0.0279907281633146	0.8305693336040049
41	0.0258577269540247	-0.8574992315120710

i	weight - w_i	abscissa - x_i
42	0.0258577269540247	0.8574992315120710
43	0.0236594072086828	-0.8822630128318973
44	0.0236594072086828	0.8822630128318973
45	0.0214013222776700	-0.9047981225210935
46	0.0214013222776700	0.9047981225210935
47	0.0190891766585732	-0.9250476356362037
48	0.0190891766585732	0.9250476356362037
49	0.0167288117901773	-0.9429604013923285
50	0.0167288117901773	0.9429604013923285
51	0.0143261918238065	-0.9584911729739271
52	0.0143261918238065	0.9584911729739271
53	0.0118873901170105	-0.9716007233716518
54	0.0118873901170105	0.9716007233716518
55	0.0094185794284204	-0.9822559490972367
56	0.0094185794284204	0.9822559490972367
57	0.0069260419018310	-0.9904299711892903
58	0.0069260419018310	0.9904299711892903
59	0.0044163334569309	-0.9961022963162671
60	0.0044163334569309	0.9961022963162671
61	0.0018992056795137	-0.9992598593087770
62	0.0018992056795137	0.9992598593087770

n = 63jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0494723666239310	0.0000000000000000
2	0.0494118330399182	-0.0494521871161596
3	0.0494118330399182	0.0494521871161596
4	0.0492303804237476	-0.0987833564469453
5	0.0492303804237476	0.0987833564469453
6	0.0489284528205120	-0.1478727863578720
7	0.0489284528205120	0.1478727863578720
8	0.0485067890978838	-0.1966003467915067
9	0.0485067890978838	0.1966003467915067
10	0.0479664211379951	-0.2448467932459534
11	0.0479664211379951	0.2448467932459534
12	0.0473086713122689	-0.2924940585862514
13	0.0473086713122689	0.2924940585862514
14	0.0465351492453837	-0.3394255419745844

i	weight - w_i	abscissa - x_i
15	0.0465351492453837	0.3394255419745844
16	0.0456477478762926	-0.3855263942122479
17	0.0456477478762926	0.3855263942122479
18	0.0446486388259414	-0.4306837987951116
19	0.0446486388259414	0.4306837987951116
20	0.0435402670830276	-0.4747872479948044
21	0.0435402670830276	0.4747872479948044
22	0.0423253450208158	-0.5177288132900333
23	0.0423253450208158	0.5177288132900333
24	0.0410068457596664	-0.5594034094862850
25	0.0410068457596664	0.5594034094862850
26	0.0395879958915441	-0.5997090518776252
27	0.0395879958915441	0.5997090518776252
28	0.0380722675843496	-0.6385471058213654
29	0.0380722675843496	0.6385471058213654
30	0.0364633700854573	-0.6758225281149861
31	0.0364633700854573	0.6758225281149861
32	0.0347652406453559	-0.7114440995848458
33	0.0347652406453559	0.7114440995848458
34	0.0329820348837793	-0.7453246483178474
35	0.0329820348837793	0.7453246483178474
36	0.0311181166222198	-0.7773812629903724
37	0.0311181166222198	0.7773812629903724
38	0.0291780472082805	-0.8075354957734567
39	0.0291780472082805	0.8075354957734567
40	0.0271665743590979	-0.8357135543195029
41	0.0271665743590979	0.8357135543195029
42	0.0250886205533450	-0.8618464823641238
43	0.0250886205533450	0.8618464823641238
44	0.0229492710048899	-0.8858703285078534
45	0.0229492710048899	0.8858703285078534
46	0.0207537612580391	-0.9077263027785316
47	0.0207537612580391	0.9077263027785316
48	0.0185074644601613	-0.9273609206218432
49	0.0185074644601613	0.9273609206218432
50	0.0162158784103383	-0.9447261340410098
51	0.0162158784103383	0.9447261340410098
52	0.0138846126161156	-0.9597794497589419
53	0.0138846126161156	0.9597794497589419

i	weight - w_i	abscissa - x_i
54	0.0115193760768800	-0.9724840346975701
55	0.0115193760768800	0.9724840346975701
56	0.0091259686763267	-0.9828088105937273
57	0.0091259686763267	0.9828088105937273
58	0.0067102917659601	-0.9907285468921895
59	0.0067102917659601	0.9907285468921895
60	0.0042785083468638	-0.9962240127779701
61	0.0042785083468638	0.9962240127779701
62	0.0018398745955771	-0.9992829840291237
63	0.0018398745955771	0.9992829840291237

n = 64jump to n = [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#), [26](#), [27](#), [28](#), [29](#), [30](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#), [60](#), [61](#), [62](#), [63](#), [64](#)

i	weight - w_i	abscissa - x_i
1	0.0486909570091397	-0.0243502926634244
2	0.0486909570091397	0.0243502926634244
3	0.0485754674415034	-0.0729931217877990
4	0.0485754674415034	0.0729931217877990
5	0.0483447622348030	-0.1214628192961206
6	0.0483447622348030	0.1214628192961206
7	0.0479993885964583	-0.1696444204239928
8	0.0479993885964583	0.1696444204239928
9	0.0475401657148303	-0.2174236437400071
10	0.0475401657148303	0.2174236437400071
11	0.0469681828162100	-0.2646871622087674
12	0.0469681828162100	0.2646871622087674
13	0.0462847965813144	-0.3113228719902110
14	0.0462847965813144	0.3113228719902110
15	0.0454916279274181	-0.3572201583376681
16	0.0454916279274181	0.3572201583376681
17	0.0445905581637566	-0.4022701579639916
18	0.0445905581637566	0.4022701579639916
19	0.0435837245293235	-0.4463660172534641
20	0.0435837245293235	0.4463660172534641
21	0.0424735151236536	-0.4894031457070530
22	0.0424735151236536	0.4894031457070530
23	0.0412625632426235	-0.5312794640198946
24	0.0412625632426235	0.5312794640198946
25	0.0399537411327203	-0.5718956462026340

i	weight - w_i	abscissa - x_i
26	0.0399537411327203	0.5718956462026340
27	0.0385501531786156	-0.6111553551723933
28	0.0385501531786156	0.6111553551723933
29	0.0370551285402400	-0.6489654712546573
30	0.0370551285402400	0.6489654712546573
31	0.0354722132568824	-0.6852363130542333
32	0.0354722132568824	0.6852363130542333
33	0.0338051618371416	-0.7198818501716109
34	0.0338051618371416	0.7198818501716109
35	0.0320579283548516	-0.7528199072605319
36	0.0320579283548516	0.7528199072605319
37	0.0302346570724025	-0.7839723589433414
38	0.0302346570724025	0.7839723589433414
39	0.0283396726142595	-0.8132653151227975
40	0.0283396726142595	0.8132653151227975
41	0.0263774697150547	-0.8406292962525803
42	0.0263774697150547	0.8406292962525803
43	0.0243527025687109	-0.8659993981540928
44	0.0243527025687109	0.8659993981540928
45	0.0222701738083833	-0.8893154459951141
46	0.0222701738083833	0.8893154459951141
47	0.0201348231535302	-0.9105221370785028
48	0.0201348231535302	0.9105221370785028
49	0.0179517157756973	-0.9295691721319396
50	0.0179517157756973	0.9295691721319396
51	0.0157260304760247	-0.9464113748584028
52	0.0157260304760247	0.9464113748584028
53	0.0134630478967186	-0.9610087996520538
54	0.0134630478967186	0.9610087996520538
55	0.0111681394601311	-0.9733268277899110
56	0.0111681394601311	0.9733268277899110
57	0.0088467598263639	-0.9833362538846260
58	0.0088467598263639	0.9833362538846260
59	0.0065044579689784	-0.9910133714767443
60	0.0065044579689784	0.9910133714767443
61	0.0041470332605625	-0.9963401167719553
62	0.0041470332605625	0.9963401167719553
63	0.0017832807216964	-0.9993050417357722
64	0.0017832807216964	0.9993050417357722

This page was compiled by [Mike "Pomax" Kamermans](#), on June 5th, 2011, as a resource for the [primer on Bezier curves](#), specifically the section that deals with [arc length computation](#). You are free to do what you like with this data. Go make the world a better place than it was when you found it.