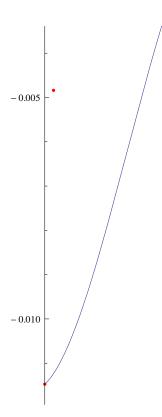
```
Exit[];
c = \left\{1 - 3 n^{2} x^{2} + 2 n^{3} x^{3}, 3 n^{2} x^{2} - 2 n^{3} x^{3}, x - 2 n x^{2} + n^{2} x^{3}, -n x^{2} + n^{2} x^{3}\right\}
\{1-3 n^2 x^2+2 n^3 x^3, 3 n^2 x^2-2 n^3 x^3, x-2 n x^2+n^2 x^3, -n x^2+n^2 x^3\}
b = 1 / n;
Y[i_, h_] := {y[i], y[i+1], m[i], m[i+1]}.c /. x \rightarrow h;
\{ \texttt{Y[i,0]}, \, \texttt{Y[i,1/n]}, \, \texttt{D[Y[i,x]}, \, \texttt{x]} \, /. \, \, \texttt{x} \, \rightarrow \, \texttt{0,D[Y[i,x]}, \, \texttt{x]} \, /. \, \, \texttt{x} \, \rightarrow \, \texttt{1/n} \}
{y[i], y[1+i], m[i], m[1+i]}
Simplify [(D[Y[1, x], \{x, 2\}] / 4 / n / . x \rightarrow 0) = 0]
2 m[1] + m[2] + 3 n y[1] == 3 n y[2]
Simplify [(D[Y[n, x], \{x, 2\}] / 4 / n / . x \rightarrow b) = 0]
m[n] + 2 m[1+n] + 3 n y[n] = 3 n y[1+n]
Simplify [(D[Y[i,x], \{x,2\}]/4/n/.x \rightarrow b) = (D[Y[i+1,x], \{x,2\}]/4/n/.x \rightarrow 0)]
m[i] + 4 m[1+i] + m[2+i] + 3 n y[i] == 3 n y[2+i]
M[n_{-}] := SparseArray[{{1, 1} \rightarrow -2, (n+1) {1, 1} \rightarrow 2,
      \{n+1, n\} \rightarrow -2, \{1, 2\} \rightarrow 2, \{i_j, j_j\} /; (i == j+1 \&\& i < n+1 \&\& i > 1) \rightarrow -1,
      \{i_{-}, j_{-}\}\/; (i == j-1 \&\& i < n+1 \&\& i > 1) \rightarrow 1\}, (n+1) \{1, 1\}];
M[5] // MatrixForm
 7-2-2-0-0-0
 -1 0 1 0 0 0
 0 - 1 \ 0 \ 1 \ 0 \ 0
 0 \quad 0 \quad -1 \quad 0 \quad 1 \quad 0
 0 0 0 -1 0
 (0 \ 0 \ 0 \ 0 \ -2 \ 2)
```

los:

```
y = Transpose[XY][[2]]; y = Table[y[[i]], {i, 1, Length[y], 20}];
If[y[[Length[y]]] # XY[[Length[XY], 2]], AppendTo[y, XY[[Length[XY], 2]]]];
n = Length[y] - 1; m = M[n].y;

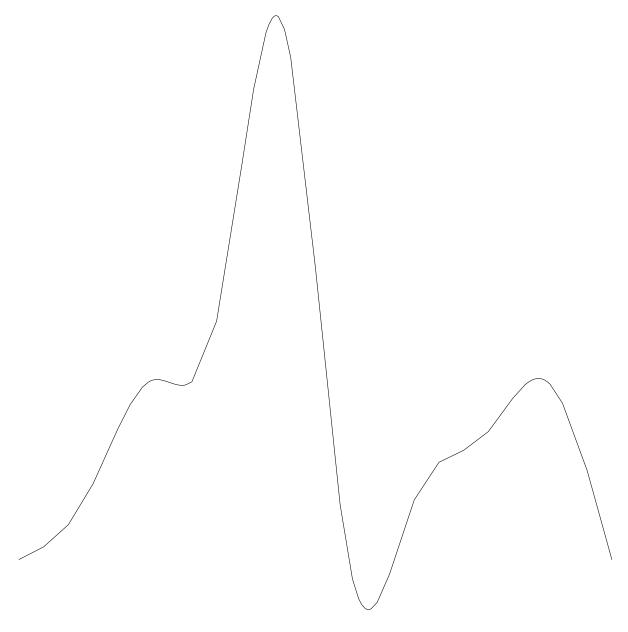
For [i = 1, i ≤ n, i++,
    delta = (y[[i+1]] - y[[i]]) n;
    If[delta = 0, m[[i]] = 0; m[[i+1]] = 0,
        a = m[[i]] / delta; b = m[[i+1]] / delta;
    If[a^2+b^2>3,
        t = 3/Sqrt[a^2+b^2]; m[[i]] = t a delta; m[[i+1]] = t b delta;]
]];
```

```
Y[x0_] := Module[\{i, x = x0, y = y, m = m, c = c, n = n\},
  i = Ceiling[x * n];
  x = (i - 1) / n;
  {y[[i]], y[[i+1]], m[[i]], m[[i+1]]}.
   \{1-3 n^2 x^2+2 n^3 x^3, 3 n^2 x^2-2 n^3 x^3, x-2 n x^2+n^2 x^3, -n x^2+n^2 x^3\}
Show [Plot[Y[x], \{x, 0, 1\}, AspectRatio \rightarrow 1, PlotRange \rightarrow All],
 ListPlot[XY, PlotStyle \rightarrow Red]]
 0.010
 0.005
                                       0.2
```



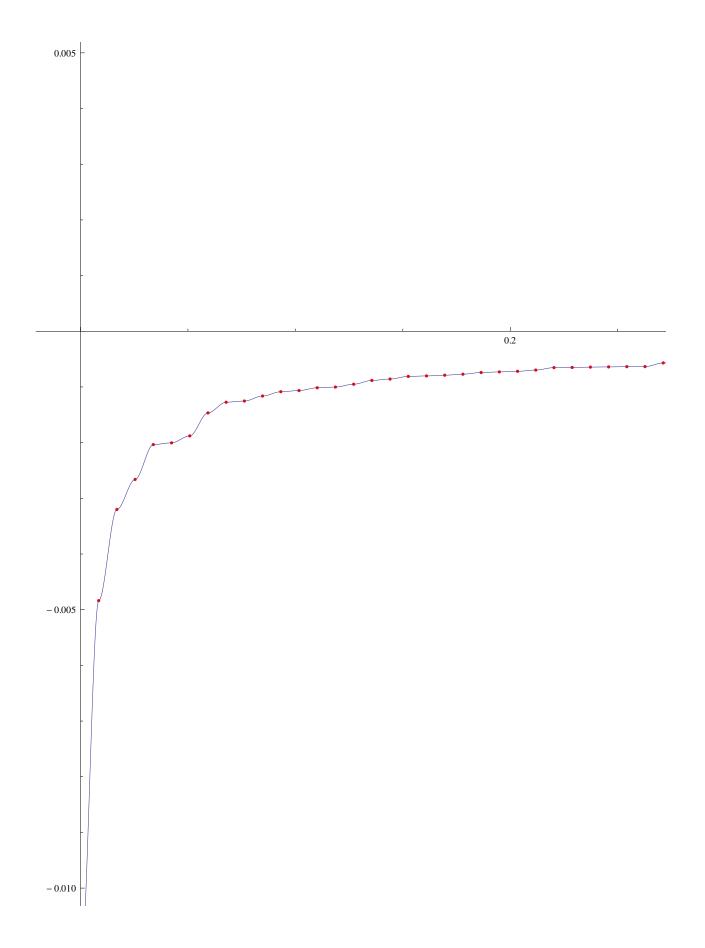
<< Splines`

```
 \begin{aligned} & \text{Graphics} \left[ \text{Spline} \left[ \text{Table} \left[ \left\{ i \: / \: (\text{Length} \left[ y \right] - 1) \: , \: y \left[ \left[ i \: + 1 \right] \right] \right\} , \: \left\{ i \: , \: 0 \: , \: \text{Length} \left[ y \right] - 1 \right\} \right] , \: \text{Cubic} \right] , \\ & \text{AspectRatio} \: \to \: 1 \right] \end{aligned}
```



```
\begin{split} Y[x0_{-}] &:= Module \Big[ \{i = n, \, x = x0, \, p = y, \, m = m, \, n = n, \, b, \, y \}, \\ &If[x = 0, \, i = 1, \\ &While[x \le (i - 1) / n, \, i - -];]; \\ &b = 1 / n; \\ &x - = (i - 1) / n; \\ &\{p[[i]], \, p[[i + 1]], \, m[[i, \, 1]], \, m[[i, \, 2]]\}. \\ &\{1 - 3 \, n^2 \, x^2 + 2 \, n^3 \, x^3, \, 3 \, n^2 \, x^2 - 2 \, n^3 \, x^3, \, x - 2 \, n \, x^2 + n^2 \, x^3, \, -n \, x^2 + n^2 \, x^3 \Big\} \\ &\Big] \end{split}
```

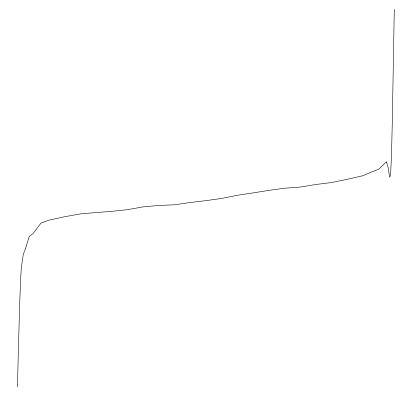
```
y = {XY[[1, 2]], XY[[Length[XY], 2]]}; y = Transpose[XY][[2]];
y = Table[y[[i]], {i, 1, Length[y], 1}];
 If [y[[Length[y]]] \neq XY[[Length[XY], 2]], AppendTo[y, XY[[Length[XY], 2]]]]; \\
n = Length[y] - 1;
\mathbf{n}
6
m = Table[ts[i, j], {i, 2n}, {j, 2}];
d = (Y[#[[1]]] - #[[2]]) ^2 & @ XY; d = Sum[d[[i]], {i, Length[d]}];
g = Solve[Flatten[Table[D[d, ts[i, j]] == 0, {i, 2n}, {j, 2}]], Flatten[m]][[1]]
m = Table[ts[i, j], \{i, 2n\}, \{j, 2\}] /. g;
m[[1;;n]] = 0 n / 2 M[n].y;
m = Table[ts[i, j], {i, n}, {j, 2}] /. g;
For [i = 1, i \le n, i++,
 delta = (P[[i+1, 2]] - P[[i, 2]]) / (P[[i+1, 1]] - P[[i, 1]]);
 a = m[[i]] / delta; b = m[[i+1]] / delta;
 If [a^2 + b^2 > 3,
  t = 3 / Sqrt[a^2+b^2]; m[[i]] = t a delta; m[[i+1]] = t b delta;]
] ; m
Show [ListPlot[{XY}, PlotRange \rightarrow All, PlotStyle \rightarrow Red],
 Plot [Y[x], \{x, 0, 1\}, PlotRange \rightarrow All]]
  0.010
```



```
Solve[Table[D[d, ys[i]] = 0, \{i, nN\}], Table[ys[i], \{i, nN\}]]
\{\{\text{ys}\, [\text{1}] \, \rightarrow \, \text{-0.00547464, ys}\, [\text{2}] \, \rightarrow \, \text{-0.000492335, ys}\, [\text{3}] \, \rightarrow \, \text{-0.000911088, }
   ys[4] \rightarrow -0.00031071, ys[5] \rightarrow -0.000185091, ys[6] \rightarrow 0.000265952,
   ys\,[7]\,\rightarrow\,0.00060474\,,\;ys\,[8]\,\rightarrow\,0.00113058\,,\;ys\,[9]\,\rightarrow\,0.00100276\,,\;ys\,[10]\,\rightarrow\,0.0046597\}\}
y = Table[ys[i], {i, nN}] /. %[[1]];
nN = 10; y = Table[ys[i], {i, nN}];
m = n / 2 M[n].y; n = Length[y] - 1;
d = (Y[#[[1]]] - #[[2]]) ^ 2 & /@ XY; d = Sum[d[[i]], {i, Length[d]}]
Show [ListPlot [XY, PlotStyle \rightarrow Red, PlotRange \rightarrow All],
 Plot[Y[x], \{x, 0, 1\}, PlotRange \rightarrow All]]
0.000118941
 0.010
  0.005
                                                                                                     0.8
                                                                                                                             1.0
-0.005
```

-0.010

Graphics [Spline [XY, Cubic], AspectRatio → 1]



Y[0]

0.01

{#[[1]]} & /@ XY

```
\{\{0.\}, \{0.008475\}, \{0.016949\}, \{0.025424\}, \{0.033898\}, \{0.042373\}, \{0.050847\},
      \{0.059322\}, \{0.067797\}, \{0.076271\}, \{0.084746\}, \{0.09322\}, \{0.101695\}, \{0.110169\},
       \{0.118644\}, \{0.127119\}, \{0.135593\}, \{0.144068\}, \{0.152542\}, \{0.161017\}, \{0.169492\}, \{0.118644\}, \{0.127119\}, \{0.135593\}, \{0.144068\}, \{0.152542\}, \{0.161017\}, \{0.169492\}, \{0.118644\}, \{0.127119\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.118644\}, \{0.1
         \{0.177966\}, \{0.186441\}, \{0.194915\}, \{0.20339\}, \{0.211864\}, \{0.220339\}, \{0.228814\},
       \{0.237288\}, \{0.245763\}, \{0.254237\}, \{0.262712\}, \{0.271186\}, \{0.279661\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.288136\}, \{0.2
         \{0.29661\}, \{0.305085\}, \{0.313559\}, \{0.322034\}, \{0.330508\}, \{0.338983\}, \{0.347458\},
         \{0.355932\}, \{0.364407\}, \{0.372881\}, \{0.381356\}, \{0.389831\}, \{0.398305\}, \{0.40678\},
         \{0.415254\}, \{0.423729\}, \{0.432203\}, \{0.440678\}, \{0.449153\}, \{0.457627\}, \{0.466102\}, \{0.415254\}, \{0.423729\}, \{0.432203\}, \{0.440678\}, \{0.449153\}, \{0.457627\}, \{0.466102\}, \{0.415254\}, \{0.423729\}, \{0.432203\}, \{0.440678\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.449153\}, \{0.4
       \{0.474576\}, \{0.483051\}, \{0.491525\}, \{0.5\}, \{0.508475\}, \{0.516949\}, \{0.525424\},
         {0.533898}, {0.542373}, {0.550847}, {0.559322}, {0.567797}, {0.576271}, {0.584746},
         \{0.59322\}, \{0.601695\}, \{0.610169\}, \{0.618644\}, \{0.627119\}, \{0.635593\}, \{0.644068\},
         {0.652542}, {0.661017}, {0.669492}, {0.677966}, {0.686441}, {0.694915}, {0.70339},
         \{0.711864\}, \{0.720339\}, \{0.728814\}, \{0.737288\}, \{0.745763\}, \{0.754237\}, \{0.762712\},
         \{0.771186\}, \{0.779661\}, \{0.788136\}, \{0.79661\}, \{0.805085\}, \{0.813559\}, \{0.822034\},
         \{0.830508\}, \{0.838983\}, \{0.847458\}, \{0.855932\}, \{0.864407\}, \{0.872881\}, \{0.881356\},
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         \{0.949153\}, \{0.957627\}, \{0.966102\}, \{0.974576\}, \{0.983051\}, \{0.991525\}, \{1.\}\}
```

 $c:\sdasd.txt$