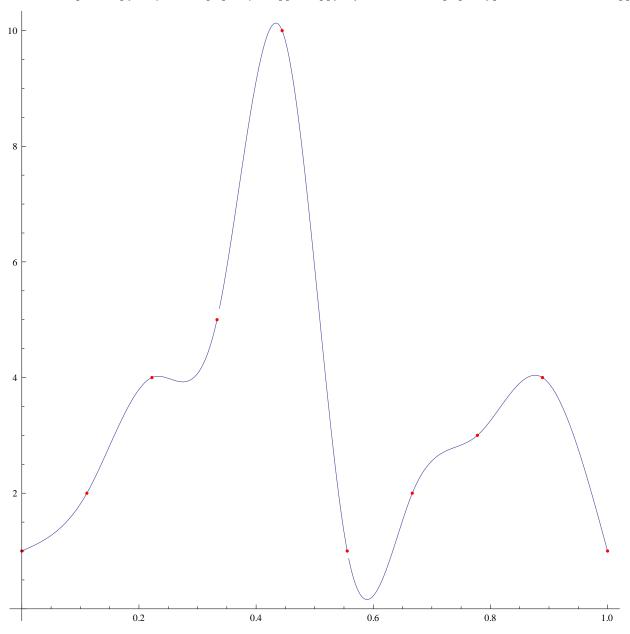
```
Exit[];
c = \left\{1 - 3 n^{2} x^{2} + 2 n^{3} x^{3}, 3 n^{2} x^{2} - 2 n^{3} x^{3}, x - 2 n x^{2} + n^{2} x^{3}, -n x^{2} + n^{2} x^{3}\right\}
\{1-3 n^2 x^2+2 n^3 x^3, 3 n^2 x^2-2 n^3 x^3, x-2 n x^2+n^2 x^3, -n x^2+n^2 x^3\}
b = 1 / n;
Y[i_, h_] := {y[i], y[i+1], m[i], m[i+1]}.c /. x \rightarrow h;
\{ \texttt{Y[i,0]}, \, \texttt{Y[i,1/n]}, \, \texttt{D[Y[i,x]}, \, \texttt{x]} \, /. \, \, \texttt{x} \to \texttt{0}, \, \texttt{D[Y[i,x]}, \, \texttt{x]} \, /. \, \, \texttt{x} \to \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_{1}, j_{2}\} /; (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 \quad 0 \quad 0 \quad -1 \quad 0 \quad 1
```

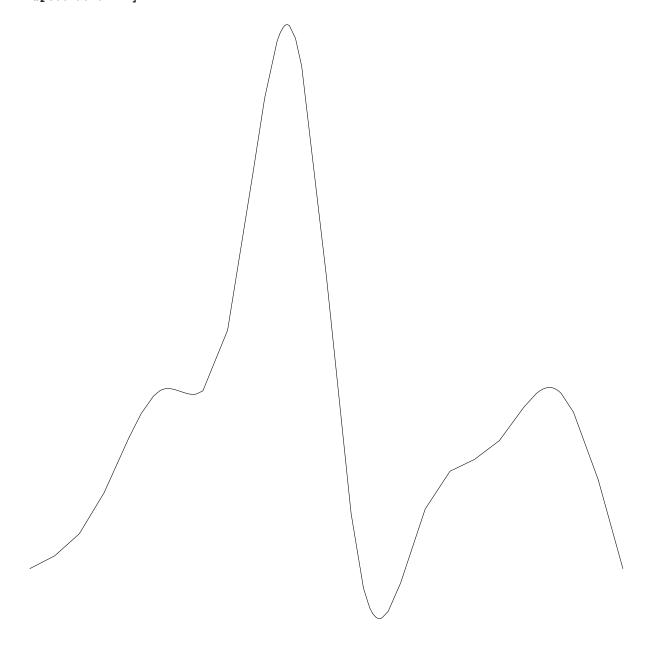
## los:

```
y = {1, 2, 4, 5, 10, 1, 2, 3, 4, 1}; m = M[Length[y]-1].y; n = Length[y]-1;
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<sup>2</sup> x<sup>2</sup> + 2 n<sup>3</sup> x<sup>3</sup>, 3 n<sup>2</sup> x<sup>2</sup> - 2 n<sup>3</sup> x<sup>3</sup>, x - 2 n x<sup>2</sup> + n<sup>2</sup> x<sup>3</sup>, -n x<sup>2</sup> + n<sup>2</sup> x<sup>3</sup>}
]
```

<< Splines`

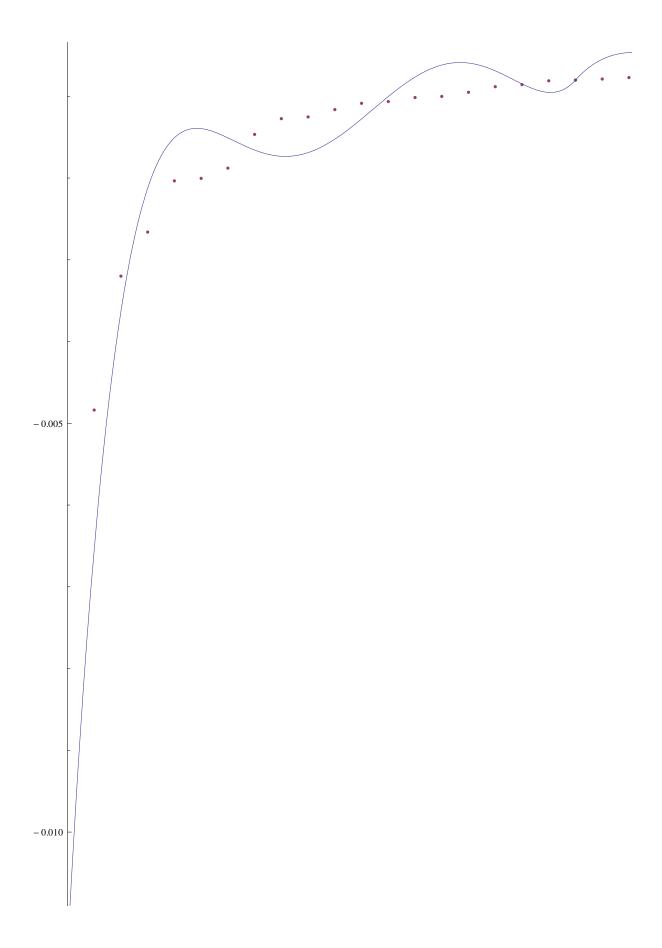


$$\begin{split} & \text{Graphics} \left[ \text{Spline} \left[ \text{Table} \left[ \left\{ i \; / \; (\text{Length} \left[ y \right] - 1) \; , \; y \left[ \left[ i \; + 1 \right] \right] \right\} , \; \left\{ i \; , \; 0 \; , \; \text{Length} \left[ y \right] - 1 \right\} \right] , \; \text{Cubic} \right] , \\ & \text{AspectRatio} \; \rightarrow \; 1 \right] \end{split}$$



```
Y[x0_{]} := Module \{ i = n, x = x0, p = P, m = m, kr = kr, n = n, b, y \},
        If[x0 = 0, i = 1,
           While [x \le p[[i, 1]], i--];
        ];
        b = p[[i+1,1]] - p[[i,1]];
         {p[[i, 2]], p[[i+1, 2]], m[[i]], m[[i+1]], kr[[i, 1]], kr[[i, 2]]}.
               \left\{1 - \frac{10 \text{ y}^3}{\text{b}^3} + \frac{15 \text{ y}^4}{\text{b}^4} - \frac{6 \text{ y}^5}{\text{b}^5}, \frac{10 \text{ y}^3}{\text{b}^3} - \frac{15 \text{ y}^4}{\text{b}^4} + \frac{6 \text{ y}^5}{\text{b}^5}, \text{ y} - \frac{6 \text{ y}^3}{\text{b}^2} + \frac{8 \text{ y}^4}{\text{b}^3} - \frac{3 \text{ y}^5}{\text{b}^4}, \frac{3 \text{ y}^5}{\text{b}^4} + \frac{6 \text{ y}^5}{\text{b}^5}, \frac{10 \text{ y}^5}{\text{b}^5} - \frac{10 \frac{10 \text{ y}^5}{\text{b
                  -\frac{4 y^{3}}{b^{2}} + \frac{7 y^{4}}{b^{3}} - \frac{3 y^{5}}{b^{4}}, \frac{y^{2}}{2} - \frac{3 y^{3}}{2 b} + \frac{3 y^{4}}{2 b^{2}} - \frac{y^{5}}{2 b^{3}}, \frac{y^{3}}{2 b} - \frac{y^{4}}{b^{2}} + \frac{y^{5}}{2 b^{3}} \right\} / \cdot y \rightarrow (x - p[[i, 1]])
 n = 20; nN = Length[XY];
 P = Join[{1}, Table[i, {i, Ceiling[(nN - (Floor[nN / n] - 1) n) / 2], nN, n}], {nN}];
n = Length[P] - 1;
 P = Table[{XY[[P[[i]], 1]], XY[[P[[i]], 2]]}, {i, 1, n+1}]
 tt = Table[ts[i], {i, 3 * n + 1}];
m = tt[[1; n+1]]; kr = Transpose[{tt[[n+2;; 2n+1]], tt[[2n+2;; 3n+1]]}];
 \{\{0, -0.011473\}, \{0.161017, -0.000802\}, \{0.330508, -0.000373\},
    \{0.5, 0.000026\}, \{0.669492, 0.00068\}, \{0.838983, 0.001158\}, \{1., 0.011826\}\}
 d = (Y[#[[1]]] - #[[2]]) ^ 2 & /@ XY; d = Sum[d[[i]], {i, Length[d]}];
 g = Solve[Table[D[d, ts[i]] == 0, {i, 3 * n + 3}], tt]
 \{\{\text{ts}[1] \to 0.732286, \, \text{ts}[2] \to 0.0432745, \, \text{ts}[3] \to 0.0155775, \, \}
        \mathsf{ts}[4] \to 0.00826988, \, \mathsf{ts}[5] \to 0.0258178, \, \mathsf{ts}[6] \to 0.0717768, \, \mathsf{ts}[7] \to 0.91313,
        \mathsf{ts} \, [8] \to -39.1332, \mathsf{ts} \, [9] \to -3.55332, \mathsf{ts} \, [10] \to -1.18621, \mathsf{ts} \, [11] \to -0.690975,
        \mathsf{ts}\,[12] \to -3.15685, \mathsf{ts}\,[13] \to -12.2057, \mathsf{ts}\,[14] \to 7.49265, \mathsf{ts}\,[15] \to 1.63073,
        \mathsf{ts}\,[16] \to 0.59971, \mathsf{ts}\,[17] \to 1.85439, \mathsf{ts}\,[18] \to 6.06894, \mathsf{ts}\,[19] \to 53.9935}
tt = Table[ts[i], {i, 3*n+1}] /. g[[1]];
 d /. g[[1]]
 0.0000251891
 Show [ListPlot [{P, XY}, PlotRange → All],
     Plot [Y[x] /. g[[1]], \{x, 0, 1\}, PlotRange \rightarrow All]]
```

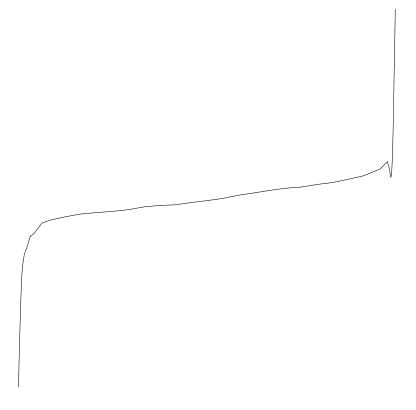
0.010	_		
	_		
	_		
	-		
0.005			
0.003			
	-		
	-		
	-		
	-		
			1



```
Solve[Table[D[d,ys[i]] == 0, \{i,nN\}], Table[ys[i], \{i,nN\}]]
 \{\{ys\,[1]\,\to\,-0.00547464\,,\,ys\,[\,2]\,\to\,-0.000492335\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.000911088\,,\,ys\,[\,3\,]\,\to\,-0.0009
              ys\,[\,4\,]\,\rightarrow\,-\,0.00031071\,\text{, }ys\,[\,5\,]\,\rightarrow\,-\,0.000185091\,\text{, }ys\,[\,6\,]\,\rightarrow\,0.000265952\,\text{,}
             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
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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},
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       \{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\},
       \{0.889831\}, \{0.898305\}, \{0.90678\}, \{0.915254\}, \{0.923729\}, \{0.932203\}, \{0.940678\},
       \{0.949153\}, \{0.957627\}, \{0.966102\}, \{0.974576\}, \{0.983051\}, \{0.991525\}, \{1.\}\}
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