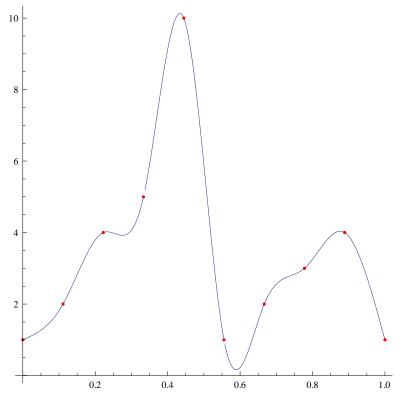
```
Exit[];
c = \left\{1 - 3 n^{2} x^{2} + 2 n^{3} x^{3}, 3 n^{2} x^{2} - 2 n^{3} x^{3}, x - 2 n x^{2} + n^{2} x^{3}, -n x^{2} + n^{2} x^{3}\right\}
\left\{1-3\;n^2\;x^2+2\;n^3\;x^3\,,\;3\;n^2\;x^2-2\;n^3\;x^3\,,\;x-2\;n\;x^2+n^2\;x^3\,,\;-n\;x^2+n^2\;x^3\right\}
b = 1 / n;
Y[i_, h_] := {y[i], y[i+1], 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\_, \ j\_\} \ /; \ (i \ \text{==} \ 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\}];
```

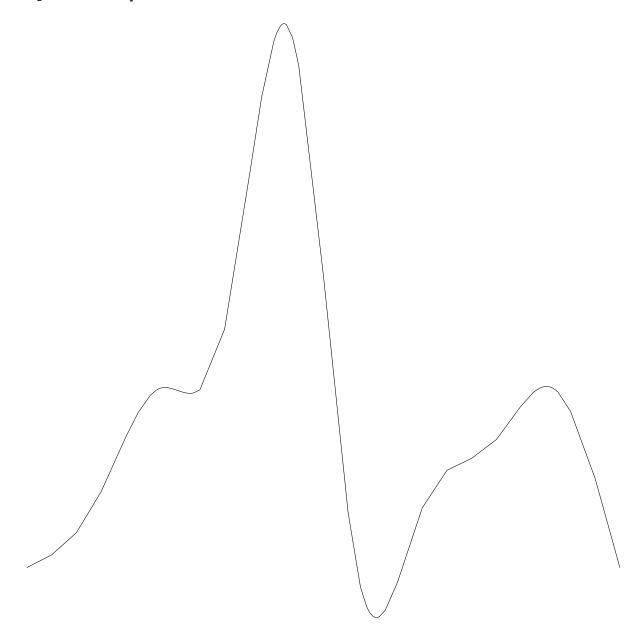
los:

```
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`

 $\label{eq:continuous_spline} \begin{aligned} & \text{Graphics}\left[\text{Spline}\left[\text{Table}\left[\left\{i \mid \left(\text{Length}\left[y\right] - 1\right), y\left[\left[i + 1\right]\right]\right\}, \left\{i, 0, \text{Length}\left[y\right] - 1\right\}\right], \text{Cubic}\right], \end{aligned}$ AspectRatio → 1]



```
ys =.
nN = 30; y = Table [ys[i], {i, nN}]; m = n / 2 M[n].y; n = Length [y] - 1
29
d = (Y[#[[1]]] - #[[2]]) ^2 & /@ XY; d = Sum[d[[i]], {i, Length[d]}];
g = Solve[Table[D[d, ys[i]] = 0, {i, nN}], y][[1]];
```

```
y = Table[ys[i], {i, nN}] /. g; m = n / 2 M[n].y; m
For [i = 1, i \le n, i++,
      delta = (y[[i+1]] - y[[i]]) n;
      a = m[[i]] / delta; b = m[[i+1]] / delta;
      If [2a+b-3>0 & a+2b-3>0 & a+2b-3>0 & a-(2a+b-3)^2/3/(a+b-2)<0,
             t = 3 / Sqrt[a^2+b^2]; m[[i]] = t a delta; m[[i+1]] = t b delta;]
]; m
d /. g
Show [ListPlot [XY, PlotStyle → Red, PlotRange → All],
      Plot[Y[x], \{x, 0, 1\}, PlotRange \rightarrow All]]
\{0.293626,\,0.0955448,\,-0.0151177,\,0.0207445,\,-0.00424161,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694523,\,0.00694524,\,0.0069424,\,0.0069424,\,0.0069424,\,0.0069424,\,0.0069424,\,0.0069424,\,0.0069424,\,0.0069424,\,0.0069424,\,0.0069424,\,0.0069424,\,0.0069424,\,0.0069424,\,0.0069424,\,0.0069424,\,0.006944,\,0.006944,\,0.006944,\,0.006944,\,0.006944,\,0.006944,\,0.006944,\,0.006944,\,0.006944,\,0.006944,\,0.006944,\,0.006944,\,0.006944,\,0.006944,\,0.006944,\,0.006944,\,0.006944,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.006644,\,0.0
      -0.000383052, 0.00260123, 0.00205798, 0.00462628, 0.00240259, 0.00110667,
      0.00144907, \, 0.00379229, \, 0.00198213, \, 0.00442655, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.00261255, \, 0.00534018, \, 0.005442655, \, 0.00554018, \, 0.005442655, \, 0.00554018, \, 0.005442655, \, 0.00554018, \, 0.005442655, \, 0.00554018, \, 0.005442655, \, 0.00554018, \, 0.005442655, \, 0.00554018, \, 0.005442655, \, 0.00554018, \, 0.005442655, \, 0.00554018, \, 0.005442655, \, 0.00554018, \, 0.005442655, \, 0.00554018, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.00544265, \, 0.0054465, \, 0.0054465, \, 0.0054465, \, 0.005446, \, 0.005446, \, 0.005444, \, 0.005444, \, 0.005444, \, 0.005444, \, 0.005444, \, 0.00544
      0.00343901, 0.00390998, 0.00389336, 0.00011677, 0.00506458, 0.000698872,
      0.00949056, -0.00609889, 0.0246598, -0.025783, 0.0701131, 0.283439
\{0.293626, 0.0955448, -0.0151177, 0.0207445, -0.00424161, 0.00694523, -0.00424161, 0.00694523, -0.00424161, 0.00694523, -0.00424161, 0.00694523, -0.00424161, 0.00694523, -0.00424161, 0.00694523, -0.00424161, 0.00694523, -0.00424161, 0.00694523, -0.00424161, 0.00694523, -0.00424161, 0.00694523, -0.00424161, 0.00694523, -0.00424161, 0.00694523, -0.00424161, 0.00694523, -0.00424161, 0.00694523, -0.00424161, 0.00694523, -0.00424161, 0.00694523, -0.00424161, 0.00694523, -0.00424161, 0.00694523, -0.00424161, 0.00694523, -0.00424161, -0.00424161, -0.00694523, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00424161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.00444161, -0.
      -0.000383052, 0.00171668, 0.00135816, 0.00462628, 0.00240259, 0.00110667,
      0.00144907, 0.00379229, 0.00198213, 0.00442655, 0.00534018, 0.00261255,
      0.00343901, 0.00390998, 0.00389336, 0.0000637241, 0.00276387, 0.000698872,
     0.00949056, -0.00609889, 0.0246598, -0.025783, 0.0701131, 0.283439
0.0000460665
       0.010
       0.005
                                                                                                                                                                                                                                                                                                                                                                                                                              0.6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.8
 -0.005
 -0.010
```

Y[0]

0.01

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

```
\{\{0.\}, \{0.008475\}, \{0.016949\}, \{0.025424\}, \{0.033898\}, \{0.042373\}, \{0.050847\},
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