E10 — ANN0001 — CCI

Aluno: ANA CAROLINA VEDOY ALVES Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \quad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 2.45), (0.5, 1.28), (1.0, 1.9), (1.5, 1.84), (2.0, 2.98), (2.5, 1.3), (3.0, 2.13)$$

a_0 a a_5

_____ 2.450000000000000

_____ 1.300000000000000

_____ 2.980000000000000

_____ 1.280000000000000

_____ 1.840000000000000

_____ 1.900000000000000

b_0 a b_5

_____ −0.745794871794871

_____ 0.431128205128205

_____ −1.955487179487180

_____ −0.063179487179488

_____ 1.698666666666667

_____ −3.478410256410257

c_0 a c_5

_____ 8.376923076923077

_____ −13.265846153846155

_____ −5.841846153846153

_____ 10.846461538461538

_____ 6.830461538461538

_____ 0.000000000000000

d_0 a d_5

_____ 9.479179487179486

_____ 16.074871794871797

_____ 4.553641025641025

_____ −14.428512820512822

_____ −7.230974358974358

_____ −8.448205128205126

E10 — ANN0001 — CCI

Aluno: ANDERSON VAILATI RITZMANN Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \quad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 2.87), (0.5, 2.47), (1.0, 1.71), (1.5, 2.88), (2.0, 2.55), (2.5, 1.37), (3.0, 2.23)$$

a_0 a a_5

_____ 2.550000000000000

_____ 2.470000000000000

_____ 1.370000000000000

_____ 2.870000000000000

_____ 2.880000000000000

_____ 1.710000000000000

b_0 a b_5

_____ −1.827589743589744

_____ 0.636564102564102

_____ −2.561897435897436

_____ −0.286205128205128

_____ 1.741333333333333

_____ −0.553743589743589

c_0 a c_5

_____ −3.082769230769232

_____ −5.801538461538462

_____ 6.821230769230768

_____ −2.804923076923075

_____ 8.011076923076924

_____ 0.000000000000000

d_0 a d_5

_____ 1.997743589743592

_____ −9.208410256410259

_____ −4.547487179487178

_____ 6.417435897435895

_____ −2.055179487179488

_____ 7.395897435897438

E10 — ANN0001 — CCI

Aluno: ANDRÉ LUÍS PERIPOLLI Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \quad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 2.28), (0.5, 2.2), (1.0, 1.51), (1.5, 1.37), (2.0, 1.23), (2.5, 1.67), (3.0, 2.41)$$

a_0 a a_5

_____ 1.510000000000000

_____ 1.670000000000000

_____ 2.200000000000000

_____ 1.370000000000000

_____ 2.280000000000000

_____ 1.230000000000000

b_0 a b_5

_____ 0.171974358974359

_____ 0.251051282051283

_____ −0.942641025641026

_____ 1.339435897435898

_____ −0.227333333333333

_____ −0.982102564102564

c_0 a c_5

_____ −1.114615384615386

_____ −2.466307692307694

_____ 1.913230769230770

_____ 2.545230769230770

_____ 0.000000000000000

_____ 0.421692307692308

d_0 a d_5

_____ 2.018564102564103

_____ −0.281128205128206

_____ −0.994358974358974

_____ −2.439897435897437

_____ 3.341025641025643

_____ −1.644205128205129

E10 — ANN0001 — CCI

Aluno: BRUNO HENRIQUE COSTA SEIXAS Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \quad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 1.45), (0.5, 1.12), (1.0, 1.69), (1.5, 1.11), (2.0, 2.12), (2.5, 2.57), (3.0, 2.2)$$

a_0 a a_5

_____ 2.570000000000000

_____ 1.450000000000000

_____ 1.690000000000000

_____ 2.120000000000000

_____ 1.110000000000000

_____ 1.120000000000000

b_0 a b_5

_____ −0.172461538461539

_____ 2.193615384615384

_____ 0.764461538461538

_____ −0.245615384615384

_____ 0.158000000000001

_____ −1.372230769230769

c_0 a c_5

_____ −1.702615384615382

_____ −6.293538461538461

_____ −3.029538461538463

_____ 0.000000000000000

_____ 4.273384615384614

_____ 7.100769230769230

d_0 a d_5

_____ 1.135076923076922

_____ 2.848923076923076

_____ −6.753538461538461

_____ 8.929538461538462

_____ 0.884615384615387

_____ −7.044615384615383

E10 — ANN0001 — CCI

Aluno: DEVAIR DENER DAROLT Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \quad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 1.51), (0.5, 1.51), (1.0, 2.31), (1.5, 2.53), (2.0, 1.71), (2.5, 1.88), (3.0, 1.69)$$

a_0 a a_5

_____ 1.880000000000000

_____ 1.510000000000000

_____ 1.510000000000000

_____ 2.310000000000000

_____ 1.710000000000000

_____ 2.530000000000000

b_0 a b_5

_____ 0.921846153846154

_____ −0.789538461538461

_____ 1.573538461538461

_____ −0.460923076923077

_____ 0.354153846153846

_____ −1.096000000000000

c_0 a c_5

_____ 2.765538461538462

_____ −3.876923076923075

_____ 0.000000000000000

_____ −2.202461538461538

_____ −1.462153846153848

_____ 4.489846153846152

d_0 a d_5

_____ −1.609846153846151

_____ −2.818461538461540

_____ 1.843692307692308

_____ 5.577846153846150

_____ −4.461538461538460

_____ 1.468307692307692

E10 — ANN0001 — CCI

Aluno: ENDREW RAFAEL TREPTOW HANG Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \qquad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 1.8), (0.5, 1.96), (1.0, 1.5), (1.5, 1.05), (2.0, 2.95), (2.5, 2.4), (3.0, 1.07)$$

a_0 a a_5

_____ 1.960000000000000

_____ 2.400000000000000

_____ 2.950000000000000

_____ 1.500000000000000

_____ 1.050000000000000

_____ 1.800000000000000

b_0 a b_5

_____ 2.095333333333334

_____ 0.540179487179487

_____ −1.858743589743590

_____ −2.704974358974359

_____ −0.120358974358974

_____ 2.177410256410256

c_0 a c_5

_____ −1.321076923076923

_____ 0.134923076923079

_____ 0.000000000000000

_____ −2.155692307692307

_____ −9.899692307692309

_____ 10.063846153846153

d_0 a d_5

_____ −0.880717948717949

_____ 8.146358974358973

_____ −0.089948717948719

_____ −13.309025641025642

_____ −0.556410256410256

_____ 6.689743589743592

E10 — ANN0001 — CCI

Aluno: FILIPE DA SILVA DE OLIVEIRA Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \quad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 2.75), (0.5, 1.5), (1.0, 1.56), (1.5, 2.5), (2.0, 1.44), (2.5, 2.84), (3.0, 2.05)$$

a_0 a a_5

_____ 1.560000000000000

_____ 2.750000000000000

_____ 2.840000000000000

_____ 2.500000000000000

_____ 1.440000000000000

_____ 1.500000000000000

b_0 a b_5

_____ 2.084717948717949

_____ −2.967897435897436

_____ 0.293948717948718

_____ 1.638871794871795

_____ −0.774666666666666

_____ −1.564205128205128

c_0 a c_5

_____ −10.209230769230770

_____ 0.000000000000000

_____ 4.490461538461537

_____ 12.346461538461536

_____ 2.807384615384616

_____ −9.656615384615383

d_0 a d_5

_____ −14.668717948717946

_____ 1.871589743589744

_____ 15.037128205128203

_____ −9.799794871794871

_____ 1.122051282051281

_____ 6.437743589743589

E10 — ANN0001 — CCI

Aluno: FREDERICO MINUZZI Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \quad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 1.78), (0.5, 1.34), (1.0, 2.46), (1.5, 1.16), (2.0, 2.13), (2.5, 2.66), (3.0, 2.15)$$

a_0 a a_5

_____ 1.780000000000000

_____ 2.660000000000000

_____ 2.130000000000000

_____ 1.340000000000000

_____ 1.160000000000000

_____ 2.460000000000000

b_0 a b_5

_____ 2.573820512820514

_____ −1.031333333333333

_____ −2.152641025641025

_____ 1.665282051282051

_____ −0.428487179487179

_____ −0.263948717948718

c_0 a c_5

_____ −3.407384615384614

_____ −2.268153846153848

_____ 0.000000000000000

_____ 10.617692307692307

_____ 7.635846153846154

_____ −11.823384615384615

d_0 a d_5

_____ 1.512102564102565

_____ 14.960717948717948

_____ −9.350051282051281

_____ 0.759487179487177

_____ 5.090564102564103

_____ −12.972820512820512

E10 — ANN0001 — CCI

Aluno: GUILHERME ARAÚJO LIRA DE MENEZES Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \qquad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 1.4), (0.5, 2.08), (1.0, 2.62), (1.5, 1.97), (2.0, 2.31), (2.5, 2.5), (3.0, 1.88)$$

a_0 a a_5

_____ 1.400000000000000

_____ 2.310000000000000

_____ 2.620000000000000

_____ 1.970000000000000

_____ 2.080000000000000

_____ 2.500000000000000

b_0 a b_5

_____ 1.626769230769231

_____ 1.081692307692308

_____ 1.226615384615385

_____ −0.413692307692308

_____ −0.632000000000000

_____ −0.514769230769231

c_0 a c_5

_____ 0.800307692307692

_____ −1.017230769230770

_____ −2.175692307692308

_____ 4.444615384615386

_____ 0.000000000000000

_____ −4.881230769230770

d_0 a d_5

_____ 0.533538461538461

_____ −0.772307692307692

_____ 1.450461538461538

_____ −3.787692307692308

_____ 6.217230769230770

_____ −3.641230769230770

E10 — ANN0001 — CCI

Aluno: GUILHERME LAFUENTE GONÇALVES Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \quad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 2.24), (0.5, 2.33), (1.0, 1.82), (1.5, 2.92), (2.0, 2.99), (2.5, 2.5), (3.0, 2.51)$$

a_0 a a_5

_____ 1.820000000000000

_____ 2.330000000000000

_____ 2.500000000000000

_____ 2.240000000000000

_____ 2.990000000000000

_____ 2.920000000000000

b_0 a b_5

_____ −0.561384615384616

_____ 1.822000000000001

_____ 0.677153846153846

_____ −0.945153846153846

_____ 0.765307692307692

_____ −0.990615384615385

c_0 a c_5

_____ 1.744153846153847

_____ 6.847384615384615

_____ −0.976615384615387

_____ −3.511846153846153

_____ 0.000000000000000

_____ −4.557692307692307

d_0 a d_5

_____ −2.341230769230769

_____ 6.906153846153845

_____ 1.813846153846156

_____ −7.603384615384615

_____ 2.387384615384613

_____ −1.162769230769231

E10 — ANN0001 — CCI

Aluno: HENRIQUE WIPPEL PARUCKER DA SILVA Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \qquad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 1.54), (0.5, 2.46), (1.0, 2.05), (1.5, 2.24), (2.0, 1.1), (2.5, 1.67), (3.0, 2.51)$$

a_0 a a_5

_____ 1.540000000000000

_____ 2.050000000000000

_____ 2.240000000000000

_____ 1.670000000000000

_____ 1.100000000000000

_____ 2.460000000000000

b_0 a b_5

_____ 0.106205128205128

_____ −1.139333333333333

_____ −0.071717948717948

_____ 2.003128205128205

_____ −1.070948717948718

_____ 2.706897435897436

c_0 a c_5

_____ 4.845538461538464

_____ 0.000000000000000

_____ 7.117538461538462

_____ −0.969384615384616

_____ −6.980769230769234

_____ −5.201384615384616

d_0 a d_5

_____ 6.697948717948719

_____ −5.391282051282052

_____ 9.398871794871797

_____ 0.646256410256410

_____ −7.884205128205132

_____ −3.467589743589744

E10 — ANN0001 — CCI

Aluno: JOÃO GUILHERME PELIZZA Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \quad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 2.5), (0.5, 2.07), (1.0, 1.21), (1.5, 1.43), (2.0, 2.34), (2.5, 1.88), (3.0, 1.33)$$

a_0 a a_5

_____ 1.210000000000000

_____ 2.500000000000000

_____ 1.880000000000000

_____ 2.340000000000000

_____ 1.430000000000000

_____ 2.070000000000000

b_0 a b_5

_____ −1.425692307692307

_____ −0.514846153846154

_____ 1.806000000000000

_____ −1.023923076923076

_____ 0.579923076923077

_____ −1.550307692307692

c_0 a c_5

_____ −2.070923076923076

_____ 3.123692307692307

_____ 2.536153846153845

_____ −4.988307692307691

_____ 0.000000000000000

_____ 0.977076923076924

d_0 a d_5

_____ −1.380615384615384

_____ 3.976923076923077

_____ −5.016307692307691

_____ −0.651384615384616

_____ −0.391692307692308

_____ 3.463076923076922

E10 — ANN0001 — CCI

Aluno: JOSÉ EDUARDO BRANDÃO Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \quad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 2.63), (0.5, 2.59), (1.0, 1.81), (1.5, 2.55), (2.0, 2.61), (2.5, 2.24), (3.0, 1.36)$$

a_0 a a_5

_____ 2.630000000000000

_____ 2.610000000000000

_____ 2.240000000000000

_____ 2.590000000000000

_____ 2.550000000000000

_____ 1.810000000000000

b_0 a b_5

_____ −0.486435897435897

_____ 0.557871794871795

_____ 1.335333333333333

_____ −1.355743589743589

_____ −1.249589743589743

_____ −0.054897435897436

c_0 a c_5

_____ −3.648461538461537

_____ −1.531230769230771

_____ 6.428923076923074

_____ −3.827230769230768

_____ 0.000000000000000

_____ 0.004923076923078

d_0 a d_5

_____ −6.718256410256408

_____ 2.435589743589743

_____ 1.020820512820514

_____ −1.024102564102566

_____ 6.837435897435896

_____ −2.551487179487179

E10 — ANN0001 — CCI

Aluno: LEONARDO DE CASTRO Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \qquad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 1.68), (0.5, 2.77), (1.0, 1.17), (1.5, 2.51), (2.0, 2.96), (2.5, 2.64), (3.0, 1.38)$$

a_0 a a_5

_____ 2.770000000000000

_____ 1.680000000000000

_____ 2.640000000000000

_____ 2.960000000000000

_____ 1.170000000000000

_____ 2.510000000000000

b_0 a b_5

_____ −0.712769230769231

_____ 4.072461538461539

_____ −1.604923076923077

_____ 2.896000000000000

_____ −1.591076923076923

_____ −0.131230769230769

c_0 a c_5

_____ −11.354769230769231

_____ 13.139076923076923

_____ 0.000000000000000

_____ −5.921538461538460

_____ −2.786769230769232

_____ −0.132923076923077

d_0 a d_5

_____ 16.329230769230769

_____ 1.857846153846155

_____ −1.769230769230770

_____ 3.859076923076922

_____ −7.569846153846154

_____ −12.707076923076920

E10 — ANN0001 — CCI

Aluno: LEONARDO SILVA VASQUEZ RIBEIRO Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \quad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 2.88), (0.5, 1.59), (1.0, 1.79), (1.5, 2.1), (2.0, 2.46), (2.5, 2.25), (3.0, 1.36)$$

a_0 a a_5

_____ 1.790000000000000

_____ 2.100000000000000

_____ 2.880000000000000

_____ 2.460000000000000

_____ 1.590000000000000

_____ 2.250000000000000

b_0 a b_5

_____ 0.838974358974359

_____ −1.224102564102564

_____ −1.002564102564102

_____ 0.354358974358974

_____ −3.368717948717948

_____ 0.706666666666667

c_0 a c_5

_____ 4.732307692307691

_____ −1.489230769230768

_____ −1.667692307692308

_____ 0.784615384615384

_____ −1.049230769230768

_____ 0.000000000000000

d_0 a d_5

_____ 1.222564102564101

_____ −3.854358974358973

_____ 3.154871794871794

_____ −1.515897435897435

_____ −0.118974358974360

_____ 1.111794871794872

E10 — ANN0001 — CCI

Aluno: LUCAS MATHEUS CAMILO VEIGA Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \quad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 1.25), (0.5, 2.61), (1.0, 1.24), (1.5, 2.18), (2.0, 2.08), (2.5, 1.2), (3.0, 1.05)$$

a_0 a a_5

_____ 1.200000000000000

_____ 2.610000000000000

_____ 1.250000000000000

_____ 2.080000000000000

_____ 1.240000000000000

_____ 2.180000000000000

b_0 a b_5

_____ −1.652410256410257

_____ 1.894666666666666

_____ −1.165025641025641

_____ −0.929641025641025

_____ 4.544820512820513

_____ −0.886256410256410

c_0 a c_5

_____ −10.948923076923077

_____ 0.000000000000000

_____ −5.473846153846154

_____ 2.595076923076924

_____ 11.035692307692306

_____ −1.620307692307693

d_0 a d_5

_____ −1.730051282051283

_____ −11.006358974358974

_____ 2.569025641025640

_____ 2.810256410256411

_____ −7.299282051282051

_____ 14.656410256410254

E10 — ANN0001 — CCI

Aluno: LUCAS MENEGHELLI PEREIRA Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \quad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 1.08), (0.5, 2.75), (1.0, 2.45), (1.5, 1.55), (2.0, 1.57), (2.5, 2.02), (3.0, 1.07)$$

a_0 a a_5

_____ 1.570000000000000

_____ 1.550000000000000

_____ 2.020000000000000

_____ 2.750000000000000

_____ 1.080000000000000

_____ 2.450000000000000

b_0 a b_5

_____ −1.884743589743590

_____ 1.071410256410256

_____ −1.116666666666667

_____ 1.455641025641026

_____ 4.282179487179487

_____ −0.348974358974359

c_0 a c_5

_____ −4.653076923076923

_____ 2.563846153846154

_____ 0.000000000000000

_____ −5.653076923076922

_____ 1.812307692307692

_____ −1.027692307692309

d_0 a d_5

_____ −3.768717948717948

_____ 2.394358974358976

_____ 3.083589743589742

_____ 3.102051282051282

_____ −0.501025641025642

_____ −4.310256410256410

E10 — ANN0001 — CCI

Aluno: MARCOS VALDECIR CAVALHEIRO JUNIOR Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \quad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 2.73), (0.5, 2.6), (1.0, 1.1), (1.5, 1.17), (2.0, 2.85), (2.5, 1.81), (3.0, 1.33)$$

a_0 a a_5

_____ 2.730000000000000

_____ 1.170000000000000

_____ 1.810000000000000

_____ 2.850000000000000

_____ 2.600000000000000

_____ 1.100000000000000

b_0 a b_5

_____ −2.425948717948718

_____ 3.022666666666666

_____ −1.996717948717948

_____ −2.401487179487179

_____ 0.810820512820512

_____ 0.608358974358974

c_0 a c_5

_____ 4.400615384615382

_____ 4.397846153846155

_____ −10.871384615384615

_____ 0.000000000000000

_____ −5.210153846153846

_____ 6.447692307692310

d_0 a d_5

_____ 1.364717948717952

_____ −3.473435897435897

_____ 6.407179487179486

_____ 10.179487179487181

_____ −2.931897435897437

_____ −11.546051282051282

E10 — ANN0001 — CCI

Aluno: MATHEUS RAMBO DA ROZA Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \quad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 1.84), (0.5, 1.02), (1.0, 2.23), (1.5, 1.1), (2.0, 2.95), (2.5, 2.3), (3.0, 1.15)$$

a_0 a a_5

_____ 1.100000000000000

_____ 2.950000000000000

_____ 2.230000000000000

_____ 2.300000000000000

_____ 1.020000000000000

_____ 1.840000000000000

b_0 a b_5

_____ −0.399923076923077

_____ 0.594000000000000

_____ 1.485692307692307

_____ −2.769692307692308

_____ 2.343923076923077

_____ −3.202846153846154

c_0 a c_5

_____ −13.148307692307693

_____ −11.636307692307694

_____ 0.000000000000000

_____ 15.136153846153849

_____ 9.377076923076924

_____ 1.409076923076925

d_0 a d_5

_____ 6.251384615384616

_____ 18.856307692307695

_____ −0.939384615384617

_____ −17.848307692307696

_____ −15.016923076923078

_____ 8.696923076923079

E10 — ANN0001 — CCI

Aluno: NILTON JOSÉ MOCELIN JÚNIOR Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \quad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 2.19), (0.5, 1.58), (1.0, 1.29), (1.5, 1.16), (2.0, 2.77), (2.5, 2.13), (3.0, 1.91)$$

a_0 a a_5

_____ 1.160000000000000

_____ 2.190000000000000

_____ 2.130000000000000

_____ 1.290000000000000

_____ 2.770000000000000

_____ 1.580000000000000

b_0 a b_5

_____ −1.668512820512821

_____ −1.459589743589743

_____ 2.129333333333333

_____ −0.740820512820513

_____ −0.977128205128205

_____ 1.339794871794872

c_0 a c_5

_____ −9.702153846153847

_____ 3.685538461538462

_____ 8.123076923076924

_____ 1.437538461538461

_____ 0.000000000000000

_____ −1.910153846153847

d_0 a d_5

_____ 0.958358974358974

_____ −11.883487179487181

_____ −2.457025641025642

_____ 6.688820512820514

_____ −2.231794871794872

_____ 8.925128205128205

E10 — ANN0001 — CCI

Aluno: PAULO ROBERTO ALBUQUERQUE Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \quad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 2.58), (0.5, 1.09), (1.0, 1.2), (1.5, 2.66), (2.0, 1.04), (2.5, 1.17), (3.0, 1.77)$$

a_0 a a_5

_____ 2.580000000000000

_____ 1.170000000000000

_____ 1.040000000000000

_____ 1.200000000000000

_____ 2.660000000000000

_____ 1.090000000000000

b_0 a b_5

_____ −0.341999999999999

_____ −3.508384615384615

_____ 2.921307692307693

_____ −2.513307692307692

_____ −1.923230769230769

_____ 1.455230769230769

c_0 a c_5

_____ −13.045384615384616

_____ 8.702769230769229

_____ −0.765692307692307

_____ 0.000000000000000

_____ 3.170307692307691

_____ 6.518769230769232

d_0 a d_5

_____ 2.232307692307694

_____ −13.042769230769233

_____ 14.498769230769232

_____ 0.510461538461538

_____ −6.312307692307691

_____ 2.113538461538460

E10 — ANN0001 — CCI

Aluno: RAFAEL DE MELO BÖEGER Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \qquad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 1.19), (0.5, 1.36), (1.0, 1.94), (1.5, 1.98), (2.0, 1.54), (2.5, 2.79), (3.0, 1.92)$$

a_0 a a_5

_____ 1.190000000000000

_____ 1.980000000000000

_____ 1.360000000000000

_____ 2.790000000000000

_____ 1.540000000000000

_____ 1.940000000000000

b_0 a b_5

_____ 0.852051282051282

_____ 1.041282051282051

_____ 1.245512820512821

_____ 1.007820512820512

_____ −1.163333333333333

_____ 0.083974358974359

c_0 a c_5

_____ 7.935384615384615

_____ −1.224615384615384

_____ −8.343846153846155

_____ 1.536153846153845

_____ −3.117692307692308

_____ 0.000000000000000

d_0 a d_5

_____ 1.024102564102563

_____ −1.840512820512819

_____ −1.262051282051283

_____ −10.852820512820514

_____ 7.368717948717948

_____ 5.562564102564103

E10 — ANN0001 — CCI

Aluno: RAFAEL DOS SANTOS PEREIRA Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \quad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 1.73), (0.5, 2.41), (1.0, 2.94), (1.5, 1.28), (2.0, 1.1), (2.5, 2.0), (3.0, 1.3)$$

a_0 a a_5

_____ 1.100000000000000

_____ 2.940000000000000

_____ 2.000000000000000

_____ 1.730000000000000

_____ 2.410000000000000

_____ 1.280000000000000

b_0 a b_5

_____ 1.911641025641025

_____ 1.665410256410256

_____ 0.467025641025641

_____ −2.808666666666666

_____ −1.470743589743590

_____ 1.084179487179488

c_0 a c_5

_____ 1.654923076923075

_____ 0.000000000000000

_____ −5.601076923076922

_____ −8.419692307692305

_____ 3.204307692307692

_____ 5.743846153846153

d_0 a d_5

_____ 9.442358974358973

_____ −5.870256410256409

_____ 1.103282051282050

_____ −1.693025641025641

_____ −6.716410256410254

_____ 3.734051282051281

E10 — ANN0001 — CCI

Aluno: ROBSON BERTHELSEN Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \quad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 1.2), (0.5, 1.46), (1.0, 2.74), (1.5, 2.05), (2.0, 2.87), (2.5, 1.5), (3.0, 2.91)$$

a_0 a a_5

_____ 2.050000000000000

_____ 1.500000000000000

_____ 2.870000000000000

_____ 2.740000000000000

_____ 1.460000000000000

_____ 1.200000000000000

b_0 a b_5

_____ 2.354307692307693

_____ −0.950307692307692

_____ 0.306000000000000

_____ −0.663923076923077

_____ −0.397153846153846

_____ 0.219923076923077

c_0 a c_5

_____ 5.502923076923079

_____ 11.310923076923077

_____ 0.000000000000000

_____ −11.883692307692309

_____ −9.771692307692312

_____ 9.943846153846156

d_0 a d_5

_____ 3.668615384615386

_____ 13.143692307692312

_____ −10.183076923076927

_____ −14.551692307692312

_____ 15.463076923076924

_____ −7.540615384615385

E10 — ANN0001 — CCI

Aluno: THIAGO BRANDENBURG Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \quad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 1.24), (0.5, 1.96), (1.0, 2.26), (1.5, 2.09), (2.0, 1.54), (2.5, 1.49), (3.0, 2.48)$$

a_0 a a_5

_____ 2.090000000000000

_____ 1.240000000000000

_____ 1.540000000000000

_____ 1.960000000000000

_____ 2.260000000000000

_____ 1.490000000000000

b_0 a b_5

_____ −0.881333333333333

_____ 0.142666666666666

_____ −0.937333333333333

_____ 1.030666666666666

_____ 1.090666666666666

_____ 1.614666666666667

c_0 a c_5

_____ −1.048000000000001

_____ 0.000000000000000

_____ −0.847999999999999

_____ 2.848000000000000

_____ 1.087999999999999

_____ −1.200000000000000

d_0 a d_5

_____ −0.698666666666667

_____ 0.133333333333334

_____ −1.898666666666667

_____ 1.173333333333334

_____ −0.234666666666667

_____ 1.525333333333332

E10 — ANN0001 — CCI

Aluno: THIAGO PIMENTA BARROS SILVA Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \quad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 1.38), (0.5, 2.6), (1.0, 1.76), (1.5, 1.5), (2.0, 2.02), (2.5, 1.46), (3.0, 1.29)$$

a_0 a a_5

_____ 1.500000000000000

_____ 2.600000000000000

_____ 1.760000000000000

_____ 1.380000000000000

_____ 1.460000000000000

_____ 2.020000000000000

b_0 a b_5

_____ 0.866000000000000

_____ 3.585153846153847

_____ −1.105692307692308

_____ 0.149692307692308

_____ −0.000076923076923

_____ −1.903923076923077

c_0 a c_5

_____ −6.870923076923079

_____ 2.297076923076923

_____ 2.776153846153846

_____ −4.508307692307692

_____ 2.763692307692309

_____ 0.000000000000000

d_0 a d_5

_____ −4.580615384615386

_____ 4.536923076923078

_____ 6.423076923076924

_____ −4.856307692307692

_____ −1.531384615384616

_____ 0.008307692307691

E10 — ANN0001 — CCI

Aluno: VINICIUS GASPARINI Submeter até: 20/10/2019 23:59hs

Q1 Encontre os coeficientes do spline cúbico natural $S(x)$

$$S(x) = \begin{cases} S_0(x) = a_0 + b_0(x-0) + c_0(x-0)^2 + d_0(x-0)^3, & \text{se } x \in [0, 0.5] \\ S_1(x) = a_1 + b_1(x-0.5) + c_1(x-0.5)^2 + d_1(x-0.5)^3, & \text{se } x \in [0.5, 1] \\ \quad \vdots \\ S_5(x) = a_5 + b_5(x-2.5) + c_5(x-2.5)^2 + d_5(x-2.5)^3, & \text{se } x \in [2.5, 3] \end{cases}$$

que passa pela seguinte lista de 7 pontos

$$(0.0, 1.94), (0.5, 1.69), (1.0, 2.17), (1.5, 2.55), (2.0, 1.25), (2.5, 1.69), (3.0, 1.28)$$

a_0 a a_5

_____ 2.550000000000000

_____ 1.250000000000000

_____ 2.170000000000000

_____ 1.690000000000000

_____ 1.940000000000000

_____ 1.690000000000000

b_0 a b_5

_____ 0.141846153846154

_____ 1.633538461538461

_____ −1.089538461538462

_____ −1.516000000000000

_____ −0.820923076923077

_____ 0.714153846153846

c_0 a c_5

_____ 1.057846153846153

_____ 8.209846153846152

_____ 0.000000000000000

_____ −7.356923076923076

_____ −4.602461538461537

_____ 1.925538461538462

d_0 a d_5

_____ −8.541538461538460

_____ 1.283692307692308

_____ −0.578461538461539

_____ −5.609846153846153

_____ 3.068307692307692

_____ 10.377846153846152