E08 — ANN0001 — GEN

Aluno: Sir Isaac Newton Submeter até: 16/10/2019 23:59hs

Q1 Encontre os coeficientes do polinômio de grau 20

$$p(x) = a_0 + a_1(x-x_0) + a_2(x-x_0)(x-x_1) + a_3(x-x_0)(x-x_1)(x-x_2) + \cdots + a_{20}(x-x_0)(x-x_1)(x-x_2)\cdots(x-x_{19})$$

que passa pela seguinte lista de 21 pontos

$(-5.0, 2.83)$, $(-4.5, -4.05)$, $(-4.0, -1.31)$, $(-3.5, 3.55)$, $(-3.0, -0.78)$, $(-2.5, -3.56)$, $(-2.0, 0.06)$, $(-1.5, -0.84)$, $(-1.0, -3.58)$, $(-0.5, 2.3)$, $(0.0, -4.64)$, $(0.5, 1.4)$, $(1.0, -4.14)$, $(1.5, 2.16)$, $(2.0, -1.26)$, $(2.5, -3.81)$, $(3.0, 3.42)$, $(3.5, -4.11)$, $(4.0, 4.07)$, $(4.5, 3.71)$, $(5.0, -4.7)$

a_9 -0.063435626102293

a_{19} 0.000005179580895

a_6 -4.782222222222221

a_{20} -0.000001065351143

a_{11} -0.016016931216931

a_{17} 0.000090951097985

a_2 19.239999999999998

a_8 -0.321714285714286

a_{18} -0.000022873318720

a_4 -2.539999999999999

a_7 1.825015873015873

a_{13} 0.004259457415013

a_{12} -0.002284602640158

a_{10} 0.061053968253968

a_{16} -0.000320579753384

a_0 2.830000000000000

a_3 -10.000000000000000

a_{14} -0.002416922289938

a_{15} 0.000974184897994

a_5 6.895999999999999

a_1 -13.760000000000000

E08 — ANN0001 — GEN

Aluno: Giuseppe Lodovico Lagrangia Submeter até: 16/10/2019 23:59hs

Q1 Encontre os coeficientes do polinômio de grau 20

$$p(x) = a_0+a_1(x-x_0)+a_2(x-x_0)(x-x_1)+a_3(x-x_0)(x-x_1)(x-x_2)+\cdots+a_{20}(x-x_0)(x-x_1)(x-x_2)\cdots(x-x_{19})$$

que passa pela seguinte lista de 21 pontos

$(-5.0,-0.68)$, $(-4.5,4.94)$, $(-4.0,-2.97)$, $(-3.5,2.28)$, $(-3.0,3.98)$, $(-2.5,-1.79)$, $(-2.0,-3.51)$, $(-1.5,-2.16)$, $(-1.0,-4.47)$, $(-0.5,3.53)$, $(0.0,2.46)$, $(0.5,3.81)$, $(1.0,1.37)$, $(1.5,4.03)$, $(2.0,4.06)$, $(2.5,4.47)$, $(3.0,-4.73)$, $(3.5,2.8)$, $(4.0,-2.7)$, $(4.5,0.57)$, $(5.0,-4.07)$

a_4 -28.933333333333334

a_3 35.586666666666666

a_0 -0.680000000000000

a_6 -4.759111111111111

a_{13} 0.007857150257150

a_8 0.268761904761905

a_{10} 0.033202116402116

a_{14} -0.003020597509486

a_{16} -0.000263910825604

a_{11} 0.013927721661055

a_9 -0.172980599647266

a_{19} 0.000002987550286

a_{20} -0.000000579539775

a_{18} -0.000014463242068

a_1 11.240000000000000

a_{17} 0.000064766961549

a_7 0.582857142857143

a_2 -27.060000000000002

a_{15} 0.000959044717775

a_5 14.984000000000000

a_{12} -0.015165923788146

E08 — ANN0001 — GEN

Aluno: Johann Carl Friedrich Gauss Submeter até: 16/10/2019 23:59hs

Q1 Encontre os coeficientes do polinômio de grau 20

$$p(x) = a_0+a_1(x-x_0)+a_2(x-x_0)(x-x_1)+a_3(x-x_0)(x-x_1)(x-x_2)+\cdots+a_{20}(x-x_0)(x-x_1)(x-x_2)\cdots(x-x_{19})$$

que passa pela seguinte lista de 21 pontos

$(-5.0, 1.62)$, $(-4.5, -1.77)$, $(-4.0, 0.95)$, $(-3.5, 0.79)$, $(-3.0, 4.53)$, $(-2.5, 2.03)$, $(-2.0, 4.3)$, $(-1.5, -0.26)$, $(-1.0, 2.56)$, $(-0.5, 4.11)$, $(0.0, -2.69)$, $(0.5, -0.07)$, $(1.0, 1.89)$, $(1.5, 3.0)$, $(2.0, -2.03)$, $(2.5, 0.48)$, $(3.0, 0.96)$, $(3.5, -1.22)$, $(4.0, -2.21)$, $(4.5, 1.87)$, $(5.0, 1.96)$

a_0 1.620000000000000

a_6 6.289777777777778

a_{11} −0.140542440275774

a_{20} −0.000000323881559

a_{18} −0.000004759489043

a_{19} 0.000001365266590

a_{13} −0.010442693109360

a_{12} 0.042017294639517

a_{14} 0.002071286033191

a_2 12.219999999999999

a_1 −6.780000000000000

a_{15} −0.000287793225783

a_8 2.073650793650794

a_{17} 0.000011012858221

a_{10} 0.398622927689594

a_{16} 0.000008427144089

a_9 −0.973375661375661

a_7 −3.875301587301588

a_3 −11.986666666666665

a_4 10.513333333333332

a_5 −8.717333333333332

E08 — ANN0001 — GEN

Aluno: David Hilbert Submeter até: 16/10/2019 23:59hs

Q1 Encontre os coeficientes do polinômio de grau 20

$$p(x) = a_0+a_1(x-x_0)+a_2(x-x_0)(x-x_1)+a_3(x-x_0)(x-x_1)(x-x_2)+\cdots+a_{20}(x-x_0)(x-x_1)(x-x_2)\cdots(x-x_{19})$$

que passa pela seguinte lista de 21 pontos

$(-5.0, 1.17)$, $(-4.5, -0.8)$, $(-4.0, -3.32)$, $(-3.5, -3.6)$, $(-3.0, -2.85)$, $(-2.5, 1.94)$, $(-2.0, -3.7)$, $(-1.5, -1.01)$, $(-1.0, -0.63)$, $(-0.5, -1.01)$, $(0.0, -4.61)$, $(0.5, -2.86)$, $(1.0, -3.55)$, $(1.5, 3.86)$, $(2.0, -0.93)$, $(2.5, 4.85)$, $(3.0, 2.64)$, $(3.5, 4.16)$, $(4.0, 0.63)$, $(4.5, 0.04)$, $(5.0, -4.04)$

a_7 2.598857142857143

a_{18} −0.000010402429597

a_{16} −0.000187597814688

a_2 −1.099999999999999

a_{17} 0.000044350403317

a_{10} −0.416019753086420

a_{20} −0.000000532753291

a_0 1.170000000000000

a_9 0.975506172839506

a_6 −2.659555555555555

a_{19} 0.000002394358588

a_{14} −0.003229188448236

a_5 2.191999999999999

a_{12} −0.045710865266421

a_{15} 0.000787102186467

a_{13} 0.012632516454739

a_{11} 0.148161487894821

a_1 −3.940000000000000

a_8 −1.829079365079365

a_3 3.719999999999999

a_4 −2.666666666666666