

Aluno: ANA CAROLINA VEDDY ALVES

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

$(-5.0, -2.77), (-4.5, -2.24), (-4.0, -2.49), (-3.5, -4.29), (-3.0, -0.02), (-2.5, -3.38), (-2.0, 4.92), (-1.5, -3.76),$   
 $(-1.0, -4.07), (-0.5, 0.5), (0.0, 4.06), (0.5, 2.3), (1.0, 4.86), (1.5, 4.34), (2.0, 1.66), (2.5, -0.68), (3.0, 3.34), (3.5, -1.82),$   
 $(4.0, 3.51), (4.5, -2.57), (5.0, -0.34)$

$$a_{13} \quad -0.020699919011030$$

$$a_3 \quad -1.026666666666667$$

$$a_2 \quad -1.560000000000000$$

$$a_{11} \quad -0.256783966650633$$

$$a_{16} \quad 0.000220109171644$$

$$a_{19} \quad -0.000001577628204$$

$$a_4 \quad 5.593333333333334$$

$$a_{17} \quad -0.000043453119830$$

$$a_7 \quad -5.568253968253968$$

$$a_5 \quad -7.922666666666667$$

$$a_{10} \quad 0.725291005291005$$

$$a_0 \quad -2.770000000000000$$

$$a_9 \quad -1.725544973544974$$

$$a_{14} \quad 0.004919466659149$$

$$a_{20} \quad 0.000000291225717$$

$$a_{12} \quad 0.077945165945166$$

$$a_{18} \quad 0.000008366003655$$

$$a_6 \quad 7.468444444444444$$

$$a_1 \quad 1.060000000000000$$

$$a_8 \quad 3.411555555555556$$

$$a_{15} \quad -0.001072624385217$$

Aluno: ANDERSON VAILATI RITZMANN

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

$(-5.0, -1.7), (-4.5, 4.6), (-4.0, 2.12), (-3.5, -0.86), (-3.0, 0.8), (-2.5, 3.89), (-2.0, -4.21), (-1.5, 2.15), (-1.0, 4.27),$   
 $(-0.5, -1.22), (0.0, 2.71), (0.5, -0.56), (1.0, 1.67), (1.5, 1.75), (2.0, -3.24), (2.5, 3.29), (3.0, -4.5), (3.5, 4.14),$   
 $(4.0, -4.47), (4.5, -4.52), (5.0, -1.25)$

$$a_{19} \quad -0.000001920581879$$

$$a_2 \quad -17.559999999999999$$

$$a_{10} \quad -0.450488888888889$$

$$a_3 \quad 11.039999999999999$$

$$a_4 \quad -2.093333333333332$$

$$a_0 \quad -1.700000000000000$$

$$a_5 \quad -1.389333333333334$$

$$a_{15} \quad 0.000048675103067$$

$$a_{11} \quad 0.163128683662017$$

$$a_{12} \quad -0.046485596707819$$

$$a_{14} \quad -0.001552830708386$$

$$a_{16} \quad 0.000067307710906$$

$$a_8 \quad -1.419873015873016$$

$$a_1 \quad 12.600000000000000$$

$$a_{20} \quad 0.000000354881154$$

$$a_9 \quad 0.952761904761905$$

$$a_{18} \quad 0.000008544940680$$

$$a_{13} \quad 0.010250661272883$$

$$a_6 \quad 0.368888888888890$$

$$a_7 \quad 1.132444444444444$$

$$a_{17} \quad -0.000029938669416$$

Aluno: ANDRÉ LUÍS PERIPOLLI

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

$(-5.0, 2.27), (-4.5, 2.94), (-4.0, -2.62), (-3.5, 4.62), (-3.0, -0.19), (-2.5, -4.13), (-2.0, -1.22), (-1.5, 3.82),$   
 $(-1.0, -3.34), (-0.5, -1.85), (0.0, 0.74), (0.5, 1.98), (1.0, -0.9), (1.5, -3.29), (2.0, -0.03), (2.5, 0.11), (3.0, -1.43),$   
 $(3.5, 4.85), (4.0, 0.08), (4.5, -0.96), (5.0, -0.91)$

$a_0$  2.2700000000000000  
 $a_6$  -11.231999999999999  
 $a_{15}$  0.000845527946480  
 $a_{20}$  -0.000000200674076  
 $a_5$  21.773333333333333  
 $a_{11}$  0.069702228635562  
 $a_4$  -29.253333333333334  
 $a_{16}$  -0.000197552163690  
 $a_3$  25.373333333333335  
 $a_{13}$  0.010469004246782  
 $a_{19}$  0.000001315338226  
 $a_{10}$  -0.153574603174603  
 $a_{17}$  0.000041261262052  
 $a_8$  -1.291492063492063  
 $a_7$  4.249142857142857  
 $a_2$  -12.460000000000001  
 $a_{18}$  -0.000007757998963  
 $a_9$  0.392747795414462  
 $a_{12}$  -0.029247052535941  
 $a_{14}$  -0.003194358140390  
 $a_1$  1.3400000000000000

Aluno: BRUNO HENRIQUE COSTA SEIXAS

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

$(-5.0, -4.32), (-4.5, -4.43), (-4.0, 3.11), (-3.5, -3.06), (-3.0, -4.47), (-2.5, -4.03), (-2.0, -1.93), (-1.5, 1.25),$   
 $(-1.0, 2.41), (-0.5, 2.9), (0.0, -1.92), (0.5, 4.29), (1.0, -3.28), (1.5, -4.09), (2.0, -4.82), (2.5, 3.52), (3.0, 4.31),$   
 $(3.5, 1.66), (4.0, 4.43), (4.5, 0.44), (5.0, 3.12)$

$$a_{16} \quad -0.000183919329739$$

$$a_9 \quad -0.226850088183422$$

$$a_7 \quad -2.857650793650794$$

$$a_0 \quad -4.320000000000000$$

$$a_1 \quad -0.219999999999999$$

$$a_{11} \quad -0.000805515472182$$

$$a_3 \quad -28.480000000000000$$

$$a_{19} \quad 0.000003403207685$$

$$a_{13} \quad 0.002880319680320$$

$$a_5 \quad -16.322666666666670$$

$$a_{17} \quad 0.000054506852440$$

$$a_8 \quad 0.893396825396826$$

$$a_{15} \quad 0.000543473081886$$

$$a_{12} \quad -0.004219464486131$$

$$a_2 \quad 15.299999999999997$$

$$a_6 \quad 7.583111111111113$$

$$a_{20} \quad -0.000000734072407$$

$$a_4 \quad 26.553333333333335$$

$$a_{14} \quad -0.001378654737385$$

$$a_{10} \quad 0.041261375661376$$

$$a_{18} \quad -0.000014356289710$$

Aluno: DEVAIR DENER DAROLT

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

$(-5.0, 2.32), (-4.5, 1.55), (-4.0, 0.8), (-3.5, 0.52), (-3.0, 0.26), (-2.5, 4.44), (-2.0, -1.79), (-1.5, -2.7), (-1.0, 2.37),$   
 $(-0.5, 2.92), (0.0, 4.59), (0.5, 0.52), (1.0, 0.11), (1.5, 2.98), (2.0, 4.87), (2.5, 3.05), (3.0, -1.42), (3.5, -1.37), (4.0, -0.99),$   
 $(4.5, -0.52), (5.0, -4.17)$

$$a_7 \quad 2.638730158730159$$

$$a_{16} \quad 0.000087902127267$$

$$a_{13} \quad 0.002417927751261$$

$$a_4 \quad -0.6000000000000000$$

$$a_{17} \quad -0.000025483633725$$

$$a_{12} \quad -0.018416204371760$$

$$a_{18} \quad 0.000006137112930$$

$$a_{11} \quad 0.086070610870611$$

$$a_5 \quad 1.538666666666667$$

$$a_0 \quad 2.3200000000000000$$

$$a_9 \quad 0.829544973544973$$

$$a_{15} \quad -0.000220038037604$$

$$a_{19} \quad -0.000001288254826$$

$$a_{20} \quad 0.000000241140702$$

$$a_6 \quad -2.658666666666667$$

$$a_{14} \quad 0.000145893377639$$

$$a_3 \quad 0.6000000000000000$$

$$a_2 \quad 0.0400000000000000$$

$$a_{10} \quad -0.302989770723104$$

$$a_1 \quad -1.5400000000000000$$

$$a_8 \quad -1.735809523809524$$

Aluno: ENDREW RAFAEL TREPTOW HANG

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

$(-5.0, 4.09), (-4.5, -3.75), (-4.0, -3.51), (-3.5, 2.1), (-3.0, -0.93), (-2.5, -1.28), (-2.0, 2.84), (-1.5, -2.81),$   
 $(-1.0, 1.73), (-0.5, 2.93), (0.0, -4.25), (0.5, 2.38), (1.0, -0.75), (1.5, 4.3), (2.0, -0.56), (2.5, -4.92), (3.0, 0.93),$   
 $(3.5, -1.17), (4.0, 3.23), (4.5, -1.14), (5.0, 4.01)$

$$a_{12} \quad 0.039852151141040$$

$$a_8 \quad -0.453841269841270$$

$$a_4 \quad -7.533333333333332$$

$$a_7 \quad 2.535873015873016$$

$$a_2 \quad 16.160000000000000$$

$$a_1 \quad -15.680000000000000$$

$$a_6 \quad -6.354666666666667$$

$$a_{10} \quad 0.207915343915344$$

$$a_9 \quad -0.185594356261023$$

$$a_5 \quad 9.767999999999999$$

$$a_{13} \quad -0.011277795455573$$

$$a_0 \quad 4.090000000000000$$

$$a_{14} \quad 0.002416226924163$$

$$a_{18} \quad -0.000009363103637$$

$$a_{15} \quad -0.000332458762088$$

$$a_3 \quad -3.613333333333335$$

$$a_{19} \quad 0.000002697075406$$

$$a_{20} \quad -0.000000640309956$$

$$a_{11} \quad -0.107990379990380$$

$$a_{16} \quad -0.000006859814691$$

$$a_{17} \quad 0.000022915062367$$

Aluno: FILIPE DA SILVA DE OLIVEIRA

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

$(-5.0, -1.03), (-4.5, -3.42), (-4.0, -4.51), (-3.5, -2.95), (-3.0, -3.64), (-2.5, 3.2), (-2.0, -0.04), (-1.5, 4.61),$   
 $(-1.0, 0.34), (-0.5, -4.96), (0.0, 4.85), (0.5, 1.93), (1.0, 2.37), (1.5, -0.29), (2.0, -3.0), (2.5, -3.82), (3.0, -2.6),$   
 $(3.5, 1.24), (4.0, -2.54), (4.5, 4.39), (5.0, 4.53)$

$$a_2 \quad 2.6000000000000000$$

$$a_6 \quad -5.5999999999999999$$

$$a_1 \quad -4.7799999999999999$$

$$a_3 \quad 1.8000000000000000$$

$$a_0 \quad -1.0300000000000000$$

$$a_8 \quad -2.580380952380952$$

$$a_{10} \quad -0.530068430335097$$

$$a_5 \quad 5.5813333333333331$$

$$a_{14} \quad -0.001872120119739$$

$$a_{18} \quad 0.000010752323504$$

$$a_{11} \quad 0.182845342312009$$

$$a_9 \quad 1.281058201058201$$

$$a_4 \quad -4.166666666666665$$

$$a_{15} \quad 0.000088063627535$$

$$a_{13} \quad 0.011726097770542$$

$$a_{12} \quad -0.051940526962749$$

$$a_7 \quad 4.267682539682539$$

$$a_{19} \quad -0.000002620200699$$

$$a_{16} \quad 0.000072682794376$$

$$a_{17} \quad -0.000035341160321$$

$$a_{20} \quad 0.000000548928148$$

Aluno: FREDERICO MINUZZI

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

$(-5.0, -2.36), (-4.5, -3.25), (-4.0, -3.83), (-3.5, -4.79), (-3.0, -4.56), (-2.5, 4.1), (-2.0, -1.19), (-1.5, -3.6),$   
 $(-1.0, -3.61), (-0.5, 3.35), (0.0, -4.5), (0.5, -0.75), (1.0, 3.26), (1.5, 1.14), (2.0, -3.79), (2.5, 3.9), (3.0, -2.96),$   
 $(3.5, 4.87), (4.0, 1.81), (4.5, 2.26), (5.0, 1.9)$

$$a_{20} \quad -0.000000635909664$$

$$a_1 \quad -1.780000000000000$$

$$a_{12} \quad -0.048944813211480$$

$$a_5 \quad 0.909333333333333$$

$$a_7 \quad 3.627174603174603$$

$$a_{13} \quad 0.015153939065050$$

$$a_{16} \quad -0.000329049402489$$

$$a_{14} \quad -0.004520832254166$$

$$a_0 \quad -2.360000000000000$$

$$a_9 \quad 1.137199294532628$$

$$a_{10} \quad -0.444884656084656$$

$$a_6 \quad -3.440000000000000$$

$$a_{15} \quad 0.001270125304834$$

$$a_{11} \quad 0.152706236972904$$

$$a_2 \quad 0.620000000000000$$

$$a_{19} \quad 0.000003374915034$$

$$a_4 \quad 1.506666666666667$$

$$a_{18} \quad -0.000016856249434$$

$$a_{17} \quad 0.000077858760759$$

$$a_8 \quad -2.363746031746031$$

$$a_3 \quad -0.920000000000000$$



Aluno: GUILHERME ARAÚJO LIRA DE MENEZES

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

$(-5.0, -4.78), (-4.5, 3.77), (-4.0, 3.17), (-3.5, -2.15), (-3.0, 3.9), (-2.5, 4.12), (-2.0, 4.17), (-1.5, 0.27), (-1.0, -4.22),$   
 $(-0.5, -2.32), (0.0, 4.88), (0.5, -1.18), (1.0, 3.19), (1.5, -0.82), (2.0, -1.57), (2.5, -1.67), (3.0, 0.13), (3.5, 3.18),$   
 $(4.0, 0.68), (4.5, 4.23), (5.0, 3.76)$

$$a_{15} \quad -0.000390187151669$$

$$a_{18} \quad 0.000011858346109$$

$$a_{12} \quad 0.014535449735450$$

$$a_6 \quad 8.986666666666666$$

$$a_2 \quad -18.300000000000001$$

$$a_{16} \quad 0.000136228513795$$

$$a_{10} \quad 0.231508994708995$$

$$a_{13} \quad -0.003610545832768$$

$$a_8 \quad 2.075428571428571$$

$$a_{14} \quad 0.001099734128306$$

$$a_9 \quad -0.752296296296296$$

$$a_{19} \quad -0.000002911132523$$

$$a_5 \quad -11.986666666666668$$

$$a_{11} \quad -0.061055507455507$$

$$a_0 \quad -4.780000000000000$$

$$a_{20} \quad 0.000000639630836$$

$$a_4 \quad 7.773333333333335$$

$$a_7 \quad -4.813968253968254$$

$$a_1 \quad 17.100000000000001$$

$$a_{17} \quad -0.000042797769832$$

$$a_3 \quad 5.906666666666666$$

Aluno: GUILHERME LAFUENTE GONÇALVES

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

$(-5.0, -2.81), (-4.5, 2.01), (-4.0, 4.01), (-3.5, 3.36), (-3.0, -4.4), (-2.5, 4.28), (-2.0, 2.72), (-1.5, -2.06),$   
 $(-1.0, 3.53), (-0.5, 2.88), (0.0, -2.5), (0.5, -2.74), (1.0, -2.33), (1.5, 1.97), (2.0, -4.61), (2.5, -3.57), (3.0, -0.83),$   
 $(3.5, 2.28), (4.0, -0.73), (4.5, 3.51), (5.0, -3.94)$

$$a_7 \quad 6.934603174603175$$

$$a_4 \quad -3.0866666666666666$$

$$a_{10} \quad -0.367483597883598$$

$$a_{11} \quad 0.074517877184544$$

$$a_{14} \quad 0.000838481448005$$

$$a_{17} \quad -0.000005274008536$$

$$a_6 \quad -9.856000000000000$$

$$a_8 \quad -3.4684444444444444$$

$$a_{15} \quad -0.000252369413851$$

$$a_{19} \quad 0.000000546345702$$

$$a_1 \quad 9.640000000000001$$

$$a_{20} \quad -0.000000190841942$$

$$a_0 \quad -2.810000000000000$$

$$a_{13} \quad -0.001080558947226$$

$$a_{12} \quad -0.008081919726364$$

$$a_5 \quad 8.703999999999999$$

$$a_3 \quad 0.2266666666666667$$

$$a_2 \quad -5.640000000000001$$

$$a_{16} \quad 0.000049493943251$$

$$a_{18} \quad -0.000000634774001$$

$$a_9 \quad 1.299372134038800$$

Aluno: HENRIQUE WIPPEL PARUCKER DA SILVA

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

$(-5.0, -4.71), (-4.5, -1.55), (-4.0, 2.2), (-3.5, 2.56), (-3.0, -0.39), (-2.5, -3.86), (-2.0, -5.0), (-1.5, 1.46),$   
 $(-1.0, 3.09), (-0.5, -1.56), (0.0, 4.62), (0.5, -2.72), (1.0, -3.36), (1.5, -0.44), (2.0, -4.0), (2.5, 2.34), (3.0, 0.14),$   
 $(3.5, -4.4), (4.0, -4.54), (4.5, -1.77), (5.0, -3.52)$

$$a_1 \quad 6.320000000000000$$

$$a_9 \quad 0.187047619047619$$

$$a_{17} \quad -0.000053448267678$$

$$a_{18} \quad 0.000013020084369$$

$$a_{12} \quad -0.009486697664475$$

$$a_{13} \quad 0.000472337539004$$

$$a_5 \quad -0.360000000000000$$

$$a_8 \quad -0.214603174603175$$

$$a_{15} \quad -0.000487571436989$$

$$a_2 \quad 1.180000000000000$$

$$a_4 \quad 2.706666666666667$$

$$a_{14} \quad 0.000810091730727$$

$$a_3 \quad -5.306666666666667$$

$$a_0 \quad -4.710000000000000$$

$$a_{19} \quad -0.000002715071514$$

$$a_6 \quad -0.115555555555556$$

$$a_{16} \quad 0.000182816329271$$

$$a_7 \quad 0.160253968253968$$

$$a_{10} \quad -0.105120282186949$$

$$a_{11} \quad 0.039867885201219$$

$$a_{20} \quad 0.000000489004007$$

Aluno: JOÃO GUILHERME PELIZZA

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

$(-5.0, 4.89), (-4.5, -3.09), (-4.0, 1.17), (-3.5, -1.28), (-3.0, 4.9), (-2.5, -1.41), (-2.0, -3.24), (-1.5, -0.04),$   
 $(-1.0, 2.88), (-0.5, 0.47), (0.0, 1.78), (0.5, -4.91), (1.0, -0.8), (1.5, 0.12), (2.0, -3.14), (2.5, -4.27), (3.0, 4.05),$   
 $(3.5, -2.09), (4.0, 3.34), (4.5, 2.78), (5.0, 1.32)$

 $a_{20}$  0.000000525503783 $a_{12}$  0.021195916840361 $a_{16}$  0.000175602974333 $a_{11}$  -0.080705980439314 $a_5$  -18.866666666666667 $a_9$  -1.032987654320988 $a_4$  22.859999999999999 $a_2$  24.479999999999997 $a_{15}$  -0.000589593248218 $a_{13}$  -0.006027118560452 $a_8$  2.974539682539683 $a_7$  -6.967873015873017 $a_{10}$  0.304039506172839 $a_{19}$  -0.000002592942616 $a_1$  -15.959999999999999 $a_6$  12.915555555555557 $a_0$  4.890000000000000 $a_{17}$  -0.000047686121212 $a_3$  -25.266666666666666 $a_{14}$  0.001870894772482 $a_{18}$  0.000011688039840

Aluno: JOSÉ EDUARDO BRANDÃO

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

$(-5.0, -1.92), (-4.5, 3.8), (-4.0, 1.9), (-3.5, -1.56), (-3.0, -1.79), (-2.5, 0.54), (-2.0, -0.13), (-1.5, 2.14),$   
 $(-1.0, -3.89), (-0.5, -2.4), (0.0, -1.64), (0.5, -4.64), (1.0, 2.89), (1.5, -1.61), (2.0, -0.87), (2.5, -0.28), (3.0, 2.14),$   
 $(3.5, -0.48), (4.0, 3.64), (4.5, 3.82), (5.0, -2.08)$

$$a_{20} \quad 0.000000290712260$$

$$a_5 \quad -1.117333333333334$$

$$a_{13} \quad 0.011426242892910$$

$$a_{19} \quad -0.000000804136319$$

$$a_{17} \quad 0.000014397483878$$

$$a_9 \quad 0.353904761904762$$

$$a_2 \quad -15.239999999999998$$

$$a_3 \quad 8.079999999999998$$

$$a_8 \quad -0.456825396825397$$

$$a_{18} \quad 0.000000351821589$$

$$a_6 \quad 0.423111111111111$$

$$a_{11} \quad 0.092942632675966$$

$$a_{16} \quad -0.000123758068308$$

$$a_{15} \quad 0.000696026810736$$

$$a_0 \quad -1.920000000000000$$

$$a_{14} \quad -0.003094755450311$$

$$a_4 \quad -0.846666666666666$$

$$a_7 \quad 0.280888888888889$$

$$a_{10} \quad -0.202043033509700$$

$$a_1 \quad 11.440000000000000$$

$$a_{12} \quad -0.035528790551013$$

Aluno: LEONARDO DE CASTRO

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

$(-5.0, -4.95), (-4.5, 0.76), (-4.0, -2.62), (-3.5, -1.06), (-3.0, -0.23), (-2.5, -1.85), (-2.0, -1.04), (-1.5, 2.94),$   
 $(-1.0, -0.13), (-0.5, 0.09), (0.0, -1.14), (0.5, 4.11), (1.0, 2.48), (1.5, 0.03), (2.0, -4.49), (2.5, -3.25), (3.0, -0.25),$   
 $(3.5, 1.13), (4.0, 3.38), (4.5, 3.48), (5.0, -4.8)$

$$a_6 \quad -1.8666666666666666$$

$$a_7 \quad 0.193269841269841$$

$$a_{14} \quad -0.002367040132119$$

$$a_{19} \quad 0.000002177013129$$

$$a_4 \quad -13.133333333333333$$

$$a_5 \quad 6.306666666666667$$

$$a_{15} \quad 0.000700404232256$$

$$a_8 \quad 0.061587301587302$$

$$a_3 \quad 18.706666666666667$$

$$a_{11} \quad 0.035783357383357$$

$$a_1 \quad 11.420000000000000$$

$$a_{16} \quad -0.000187348391370$$

$$a_{10} \quad -0.046402821869489$$

$$a_9 \quad 0.010455026455026$$

$$a_{12} \quad -0.017941189674523$$

$$a_{20} \quad -0.000000425777228$$

$$a_{18} \quad -0.000010374706682$$

$$a_2 \quad -18.180000000000000$$

$$a_{17} \quad 0.000045888676228$$

$$a_{13} \quad 0.007071486538153$$

$$a_0 \quad -4.950000000000000$$

Aluno: LEONARDO SILVA VASQUEZ RIBEIRO

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

$(-5.0, 0.56), (-4.5, -3.56), (-4.0, -2.96), (-3.5, 1.8), (-3.0, -1.82), (-2.5, 0.39), (-2.0, -4.71), (-1.5, 1.53),$   
 $(-1.0, -0.64), (-0.5, -3.91), (0.0, 3.44), (0.5, -4.2), (1.0, 3.04), (1.5, 4.07), (2.0, -3.09), (2.5, 1.03), (3.0, 0.12),$   
 $(3.5, 2.35), (4.0, 4.14), (4.5, -4.64), (5.0, -0.41)$

$$a_5 \quad 10.327999999999999$$

$$a_{18} \quad 0.000012719080617$$

$$a_{11} \quad 0.191388936988937$$

$$a_{17} \quad -0.000040130214796$$

$$a_{16} \quad 0.000074268447602$$

$$a_3 \quad -0.7466666666666667$$

$$a_6 \quad -8.251555555555555$$

$$a_2 \quad 9.440000000000001$$

$$a_{10} \quad -0.550964373897707$$

$$a_1 \quad -8.240000000000000$$

$$a_0 \quad 0.560000000000000$$

$$a_9 \quad 1.349121693121693$$

$$a_{12} \quad -0.055563294318850$$

$$a_4 \quad -7.986666666666665$$

$$a_7 \quad 5.233523809523809$$

$$a_{19} \quad -0.000003154994749$$

$$a_8 \quad -2.848507936507936$$

$$a_{13} \quad 0.013012238790017$$

$$a_{20} \quad 0.000000659000061$$

$$a_{14} \quad -0.002213356778436$$

$$a_{15} \quad 0.000143520238335$$

Aluno: LUCAS MATHEUS CAMILO VEIGA

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

$(-5.0, -0.56), (-4.5, -2.94), (-4.0, -2.08), (-3.5, -0.7), (-3.0, -3.85), (-2.5, 2.5), (-2.0, 4.04), (-1.5, 0.22),$   
 $(-1.0, -0.6), (-0.5, 2.01), (0.0, -4.78), (0.5, 0.47), (1.0, 2.99), (1.5, -3.02), (2.0, 1.93), (2.5, 3.06), (3.0, 1.85),$   
 $(3.5, -0.96), (4.0, 3.77), (4.5, -4.24), (5.0, 3.85)$

$$a_{10} \quad -0.183178835978836$$

$$a_{11} \quad 0.044192528459195$$

$$a_0 \quad -0.560000000000000$$

$$a_4 \quad -1.553333333333334$$

$$a_{16} \quad -0.000161728015273$$

$$a_3 \quad -3.626666666666666$$

$$a_{20} \quad -0.000000277426901$$

$$a_9 \quad 0.657848324514991$$

$$a_{17} \quad 0.000042112143600$$

$$a_7 \quad 4.021587301587301$$

$$a_{12} \quad -0.011397958420181$$

$$a_{19} \quad 0.000001758442700$$

$$a_{14} \quad -0.001473617270443$$

$$a_{13} \quad 0.003829204540316$$

$$a_{18} \quad -0.000009331538461$$

$$a_2 \quad 6.480000000000000$$

$$a_8 \quad -1.871873015873016$$

$$a_6 \quad -6.118222222222222$$

$$a_5 \quad 5.709333333333334$$

$$a_1 \quad -4.760000000000000$$

$$a_{15} \quad 0.000526927135181$$



Aluno: LUCAS MENEGHELLI PEREIRA

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

$(-5.0, 2.39), (-4.5, 1.5), (-4.0, -4.29), (-3.5, 4.59), (-3.0, 2.66), (-2.5, 2.82), (-2.0, -2.11), (-1.5, 4.02), (-1.0, 1.28),$   
 $(-0.5, -4.69), (0.0, -4.33), (0.5, -1.91), (1.0, 2.02), (1.5, -3.66), (2.0, -1.56), (2.5, 0.55), (3.0, 2.6), (3.5, 0.36),$   
 $(4.0, -1.91), (4.5, 3.75), (5.0, 4.16)$

$$a_5 \quad 22.247999999999998$$

$$a_9 \quad 1.237417989417989$$

$$a_{15} \quad 0.000532035254575$$

$$a_1 \quad -1.7800000000000000$$

$$a_2 \quad -9.8000000000000001$$

$$a_7 \quad 6.190730158730157$$

$$a_0 \quad 2.3900000000000000$$

$$a_{11} \quad 0.169847811447811$$

$$a_4 \quad -30.033333333333331$$

$$a_6 \quad -12.612444444444444$$

$$a_{20} \quad 0.000000224293057$$

$$a_{19} \quad -0.000000733124953$$

$$a_3 \quad 26.093333333333334$$

$$a_{16} \quad -0.000075616360907$$

$$a_{17} \quad 0.000005329888380$$

$$a_{10} \quad -0.489264197530864$$

$$a_{12} \quad -0.050915162204051$$

$$a_{18} \quad 0.000001303019979$$

$$a_{13} \quad 0.013115786271342$$

$$a_{14} \quad -0.002888226177115$$

$$a_8 \quad -2.847301587301587$$

Aluno: MARCOS VALDECIR CAVALHEIRO JUNIOR

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

$(-5.0, -1.79), (-4.5, -2.47), (-4.0, 4.04), (-3.5, -1.93), (-3.0, -1.7), (-2.5, 1.77), (-2.0, 1.96), (-1.5, -1.85),$   
 $(-1.0, 3.36), (-0.5, 1.32), (0.0, 4.54), (0.5, -0.03), (1.0, 1.81), (1.5, -3.21), (2.0, 1.11), (2.5, -0.42), (3.0, -1.97),$   
 $(3.5, -1.49), (4.0, 4.34), (4.5, -1.03), (5.0, -1.11)$

$$a_{11} \quad -0.063367901234568$$

$$a_{15} \quad -0.001134726437584$$

$$a_2 \quad 14.379999999999999$$

$$a_5 \quad -15.997333333333335$$

$$a_3 \quad -26.226666666666670$$

$$a_8 \quad 0.597396825396825$$

$$a_{20} \quad 0.000000754884316$$

$$a_{10} \quad 0.115530158730159$$

$$a_{13} \quad -0.011379474846142$$

$$a_{17} \quad -0.000075549313570$$

$$a_{14} \quad 0.003816327117914$$

$$a_{12} \quad 0.029301266634600$$

$$a_1 \quad -1.360000000000000$$

$$a_{16} \quad 0.000305388235124$$

$$a_{19} \quad -0.000003735772066$$

$$a_4 \quad 25.566666666666670$$

$$a_9 \quad -0.212966490299824$$

$$a_6 \quad 6.939555555555557$$

$$a_0 \quad -1.790000000000000$$

$$a_7 \quad -2.204190476190476$$

$$a_{18} \quad 0.000017367392207$$

Aluno: MATHEUS RAMBO DA ROZA

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

$(-5.0, 3.41), (-4.5, -0.07), (-4.0, -3.9), (-3.5, -4.57), (-3.0, 1.66), (-2.5, -3.92), (-2.0, -2.47), (-1.5, -2.94),$   
 $(-1.0, 2.72), (-0.5, -1.12), (0.0, 4.2), (0.5, 1.47), (1.0, -4.17), (1.5, 3.8), (2.0, 4.94), (2.5, 1.56), (3.0, 1.16), (3.5, 4.71),$   
 $(4.0, -1.49), (4.5, 4.15), (5.0, -4.71)$

$$a_6 \quad 7.349333333333334$$

$$a_7 \quad -5.283047619047620$$

$$a_{10} \quad 0.475583774250441$$

$$a_{14} \quad 0.005101904327301$$

$$a_4 \quad 0.153333333333334$$

$$a_{16} \quad 0.000319419620160$$

$$a_{15} \quad -0.001347119210400$$

$$a_{11} \quad -0.168632868366202$$

$$a_9 \quad -1.233947089947090$$

$$a_0 \quad 3.410000000000000$$

$$a_5 \quad -6.048000000000001$$

$$a_{19} \quad -0.000001988183620$$

$$a_{13} \quad -0.017596323018545$$

$$a_2 \quad -0.700000000000000$$

$$a_{20} \quad 0.000000264024418$$

$$a_8 \quad 2.815809523809524$$

$$a_3 \quad 4.680000000000000$$

$$a_1 \quad -6.960000000000000$$

$$a_{12} \quad 0.056206338517450$$

$$a_{17} \quad -0.000067270772132$$

$$a_{18} \quad 0.000012445404662$$

Aluno: NILTON JOSÉ MOCELIN JÚNIOR

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

$(-5.0, -0.87), (-4.5, 4.36), (-4.0, -1.16), (-3.5, -3.49), (-3.0, 0.84), (-2.5, -1.17), (-2.0, -0.32), (-1.5, -4.35),$   
 $(-1.0, -3.54), (-0.5, -2.51), (0.0, 2.96), (0.5, 3.53), (1.0, 2.57), (1.5, 4.53), (2.0, -2.37), (2.5, -4.79), (3.0, -0.08),$   
 $(3.5, -4.92), (4.0, -4.74), (4.5, 0.9), (5.0, 0.36)$

$$a_0 \quad -0.8700000000000000$$

$$a_{20} \quad 0.000000103265575$$

$$a_5 \quad -1.5999999999999999$$

$$a_9 \quad -0.797065255731922$$

$$a_1 \quad 10.4600000000000001$$

$$a_{15} \quad -0.000675736663885$$

$$a_6 \quad 3.9706666666666666$$

$$a_{12} \quad 0.034935428357651$$

$$a_{18} \quad 0.000005634914960$$

$$a_{16} \quad 0.000153348105941$$

$$a_4 \quad -6.9800000000000002$$

$$a_{13} \quad -0.010143930143930$$

$$a_{10} \quad 0.315183068783069$$

$$a_8 \quad 1.738603174603174$$

$$a_{11} \quad -0.110391534391534$$

$$a_3 \quad 18.5866666666666670$$

$$a_{14} \quad 0.002724110457444$$

$$a_2 \quad -21.5000000000000000$$

$$a_{19} \quad -0.000000860610596$$

$$a_{17} \quad -0.000031331166096$$

$$a_7 \quad -3.110603174603174$$

Aluno: PAULO ROBERTO ALBUQUERQUE

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

$(-5.0, -1.17), (-4.5, -2.98), (-4.0, -4.97), (-3.5, -2.97), (-3.0, -0.18), (-2.5, -2.36), (-2.0, -0.48), (-1.5, 4.37),$   
 $(-1.0, 2.81), (-0.5, -3.21), (0.0, -0.18), (0.5, 0.05), (1.0, 2.05), (1.5, 4.65), (2.0, 4.75), (2.5, -1.25), (3.0, -4.65),$   
 $(3.5, 4.98), (4.0, -2.39), (4.5, 2.18), (5.0, -4.86)$

$$a_7 \quad -1.391746031746032$$

$$a_{14} \quad 0.000670424695822$$

$$a_{19} \quad -0.000001361631553$$

$$a_{12} \quad 0.002754743199188$$

$$a_9 \quad -0.284656084656085$$

$$a_8 \quad 0.786031746031746$$

$$a_0 \quad -1.170000000000000$$

$$a_{17} \quad -0.000026459032547$$

$$a_{15} \quad -0.000281846658143$$

$$a_2 \quad -0.359999999999999$$

$$a_1 \quad -3.620000000000000$$

$$a_5 \quad 1.282666666666666$$

$$a_4 \quad -4.913333333333332$$

$$a_{18} \quad 0.000006384636204$$

$$a_{20} \quad 0.000000260699845$$

$$a_{16} \quad 0.000094585907919$$

$$a_6 \quad 1.114666666666667$$

$$a_{13} \quad -0.001267657445435$$

$$a_3 \quad 5.559999999999999$$

$$a_{11} \quad -0.013008305274972$$

$$a_{10} \quad 0.070961552028219$$

Aluno: RAFAEL DE MELO BÖEGER

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

$(-5.0, -3.95), (-4.5, 2.01), (-4.0, 0.39), (-3.5, 3.1), (-3.0, 3.64), (-2.5, -2.98), (-2.0, 3.19), (-1.5, -1.72),$   
 $(-1.0, -3.13), (-0.5, 2.09), (0.0, -3.48), (0.5, 3.86), (1.0, 2.19), (1.5, -0.67), (2.0, -2.4), (2.5, -3.14), (3.0, -1.37),$   
 $(3.5, 1.19), (4.0, 1.72), (4.5, 2.41), (5.0, 2.71)$

$$a_{20} \quad -0.000000622157822$$

$$a_{18} \quad -0.000013274093711$$

$$a_{13} \quad -0.009455275588609$$

$$a_0 \quad -3.950000000000000$$

$$a_{10} \quad 0.521461728395062$$

$$a_5 \quad 5.311999999999999$$

$$a_{17} \quad 0.000048086500075$$

$$a_7 \quad -2.430476190476190$$

$$a_{15} \quad 0.000143818180644$$

$$a_{16} \quad -0.000130492905096$$

$$a_2 \quad -15.160000000000000$$

$$a_6 \quad 0.312000000000000$$

$$a_{12} \quad 0.047069381647159$$

$$a_4 \quad -12.273333333333333$$

$$a_8 \quad 2.151873015873015$$

$$a_{11} \quad -0.175966137566138$$

$$a_{14} \quad 0.001071500398485$$

$$a_9 \quad -1.220938271604938$$

$$a_{19} \quad 0.000003071178344$$

$$a_1 \quad 11.920000000000000$$

$$a_3 \quad 15.880000000000001$$

Aluno: RAFAEL DOS SANTOS PEREIRA

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

$(-5.0, -1.48), (-4.5, 1.2), (-4.0, -1.82), (-3.5, -1.22), (-3.0, -3.61), (-2.5, 1.81), (-2.0, -1.63), (-1.5, -3.87),$   
 $(-1.0, 3.77), (-0.5, 2.47), (0.0, -2.81), (0.5, -1.81), (1.0, 3.38), (1.5, 4.65), (2.0, -1.7), (2.5, -0.3), (3.0, -3.37),$   
 $(3.5, 4.33), (4.0, -1.8), (4.5, 2.05), (5.0, 4.39)$

$$a_{10} \quad -0.253674779541446$$

$$a_{16} \quad 0.000082063591905$$

$$a_{20} \quad 0.000000008450454$$

$$a_6 \quad -6.952888888888888$$

$$a_{18} \quad 0.000002616748254$$

$$a_{12} \quad -0.003136208647320$$

$$a_9 \quad 0.880959435626102$$

$$a_8 \quad -2.277396825396825$$

$$a_{17} \quad -0.000016171878979$$

$$a_{11} \quad 0.049247266313933$$

$$a_5 \quad 8.890666666666666$$

$$a_{13} \quad -0.002086275864054$$

$$a_0 \quad -1.480000000000000$$

$$a_2 \quad -11.399999999999999$$

$$a_{14} \quad 0.001103767249799$$

$$a_{15} \quad -0.000342821842081$$

$$a_3 \quad 12.426666666666668$$

$$a_7 \quad 4.502857142857143$$

$$a_1 \quad 5.359999999999999$$

$$a_4 \quad -10.620000000000001$$

$$a_{19} \quad -0.000000310647829$$

Aluno: ROBSON BERTHELSEN

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

$(-5.0, -3.74), (-4.5, -1.12), (-4.0, -4.95), (-3.5, 0.63), (-3.0, -1.09), (-2.5, -4.4), (-2.0, 2.28), (-1.5, 2.48),$   
 $(-1.0, 3.09), (-0.5, 4.36), (0.0, 4.89), (0.5, -4.12), (1.0, -4.16), (1.5, 0.25), (2.0, -3.61), (2.5, 2.36), (3.0, -0.67),$   
 $(3.5, 1.42), (4.0, -2.23), (4.5, 2.23), (5.0, 4.9)$

$$a_4 \quad -21.71333333333331$$

$$a_{14} \quad 0.002244868124233$$

$$a_5 \quad 14.663999999999998$$

$$a_{11} \quad -0.095861471861472$$

$$a_9 \quad -0.448634920634921$$

$$a_0 \quad -3.740000000000000$$

$$a_{10} \quad 0.245657848324515$$

$$a_{16} \quad 0.000141115932862$$

$$a_8 \quad 0.308126984126984$$

$$a_{13} \quad -0.008563998963999$$

$$a_{15} \quad -0.000570823133363$$

$$a_1 \quad 5.240000000000000$$

$$a_7 \quad 1.375746031746032$$

$$a_{12} \quad 0.030532456843568$$

$$a_3 \quad 21.146666666666665$$

$$a_6 \quad -6.359111111111111$$

$$a_{17} \quad -0.000033026531975$$

$$a_{20} \quad 0.000000208843058$$

$$a_{18} \quad 0.000007057281292$$

$$a_2 \quad -12.900000000000000$$

$$a_{19} \quad -0.000001326810618$$



Aluno: THIAGO BRANDENBURG

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

$(-5.0, 0.3), (-4.5, 4.57), (-4.0, -2.45), (-3.5, -4.28), (-3.0, -0.35), (-2.5, 3.38), (-2.0, -0.73), (-1.5, 1.66),$   
 $(-1.0, -2.52), (-0.5, -0.6), (0.0, -0.14), (0.5, -3.04), (1.0, 3.55), (1.5, 2.06), (2.0, -3.21), (2.5, 1.89), (3.0, 2.76),$   
 $(3.5, -0.65), (4.0, 3.71), (4.5, -0.83), (5.0, -3.75)$

$$a_9 \quad 0.539894179894180$$

$$a_{18} \quad -0.000001905124522$$

$$a_6 \quad -0.402666666666667$$

$$a_{12} \quad -0.044454705788039$$

$$a_{20} \quad 0.000000090475359$$

$$a_{11} \quad 0.124261792528459$$

$$a_{15} \quad 0.000788754024733$$

$$a_{17} \quad 0.000021251343554$$

$$a_5 \quad 2.501333333333334$$

$$a_1 \quad 8.540000000000001$$

$$a_4 \quad -10.606666666666667$$

$$a_2 \quad -22.580000000000002$$

$$a_{13} \quad 0.013551222440111$$

$$a_3 \quad 21.973333333333333$$

$$a_{16} \quad -0.000146350001165$$

$$a_{10} \quad -0.289904761904762$$

$$a_0 \quad 0.300000000000000$$

$$a_{19} \quad -0.000000097058819$$

$$a_7 \quad 0.592761904761905$$

$$a_8 \quad -0.731428571428571$$

$$a_{14} \quad -0.003541492252603$$

Aluno: THIAGO PIMENTA BARROS SILVA

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

$(-5.0, -0.51), (-4.5, 0.13), (-4.0, -0.89), (-3.5, 1.65), (-3.0, 3.3), (-2.5, -1.63), (-2.0, 2.54), (-1.5, -4.43),$   
 $(-1.0, 3.58), (-0.5, 1.55), (0.0, 4.18), (0.5, -1.14), (1.0, 2.3), (1.5, 4.52), (2.0, -2.91), (2.5, -0.2), (3.0, -0.7),$   
 $(3.5, -3.74), (4.0, 1.73), (4.5, -2.3), (5.0, -0.57)$

$$a_9 \quad -1.202638447971781$$

$$a_0 \quad -0.5100000000000000$$

$$a_{18} \quad 0.000020733722083$$

$$a_{10} \quad 0.586576366843033$$

$$a_4 \quad -6.446666666666667$$

$$a_{20} \quad 0.000000631996529$$

$$a_6 \quad 1.260444444444444$$

$$a_{12} \quad 0.086187846721180$$

$$a_3 \quad 6.960000000000001$$

$$a_{13} \quad -0.027210057432280$$

$$a_{16} \quad 0.000473649431110$$

$$a_1 \quad 1.280000000000000$$

$$a_{17} \quad -0.000103383600526$$

$$a_{19} \quad -0.000003801470002$$

$$a_8 \quad 1.990793650793651$$

$$a_5 \quad 2.248000000000000$$

$$a_{15} \quad -0.001996867987979$$

$$a_{11} \quad -0.241494051627385$$

$$a_{14} \quad 0.007724933032870$$

$$a_2 \quad -3.320000000000000$$

$$a_7 \quad -2.389333333333333$$

Aluno: VINICIUS GASPARINI

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

$(-5.0, -1.82), (-4.5, -1.44), (-4.0, -0.99), (-3.5, -4.09), (-3.0, -4.49), (-2.5, -0.28), (-2.0, -3.37), (-1.5, 3.23),$   
 $(-1.0, -2.93), (-0.5, 0.68), (0.0, -2.12), (0.5, -3.54), (1.0, 0.74), (1.5, -0.21), (2.0, -0.91), (2.5, -2.3), (3.0, 0.19),$   
 $(3.5, 0.52), (4.0, -1.76), (4.5, 0.98), (5.0, 2.07)$

$$a_6 \quad 0.4204444444444444$$

$$a_{14} \quad -0.006511391959011$$

$$a_1 \quad 0.7600000000000000$$

$$a_4 \quad 6.579999999999999$$

$$a_9 \quad 0.899908289241623$$

$$a_{11} \quad 0.199141382074715$$

$$a_{17} \quad 0.000070461775087$$

$$a_7 \quad 1.205587301587302$$

$$a_5 \quad -3.789333333333333$$

$$a_{19} \quad 0.000001877817391$$

$$a_{18} \quad -0.000012292379971$$

$$a_{16} \quad -0.000358033344277$$

$$a_3 \quad -4.826666666666666$$

$$a_8 \quad -1.337968253968254$$

$$a_{20} \quad -0.000000243285917$$

$$a_{10} \quad -0.465489947089947$$

$$a_2 \quad 0.1400000000000000$$

$$a_0 \quad -1.820000000000000$$

$$a_{13} \quad 0.023211224989003$$

$$a_{15} \quad 0.001618960369437$$

$$a_{12} \quad -0.072851777029555$$