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Taller 10

1. f(x) = 6,35 \times ^{4} + 0,45 \times ^{2} + 4,81, x = 1,1, h = 0,1

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• centrado:

f'(4,1) = f(x_{i+1}) - f(x_{i-1}) = 4,87776 - 4,7 = 0,8888

f''(4,1) = f(x_{i+1}) - 2f(x_i) + f(x_{i-1}) = 4,87776 - 9,53587 + 4,7 = 4,1897

f''(4,1) = f(x_{i+1}) - 2f(x_i) + f(x_{i-1}) = 4,87776 - 9,53587 + 4,7 = 4,1897

2. f(x) = 0,35 \times 4 - 0,45 \times 2 + 4,3 \times = 1,1 \quad h = 0,06

\chi_i = 1,1 \quad f(1,1) = 4,767735 \quad f'(4,1) = 0,3734

\chi_{i+1} = 1,15 \quad f(1,15) = 4,817027188 \quad f''(4,1) = 4,182

\chi_{i-1} = 1,05 \quad f(1,05) = 4,7129302188 \quad f''(4,1) = 4,182

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\chi_{i-1} = 1,05 \quad f(x_{i+1}) - f(x_{i-1}) = 4,817027138 - 4,729302188 = 0,87725

g(1,1) = g(x_{i+1}) - g(x_{i-1}) = 4,817027138 - 4,729302188 = 0,87725

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g(1,1) = g(x_{i+1}) - g(x_{i+1}
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