Метод обратной параболической интерполяции

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parabolINTER[xn2_, xn1_, xn_, f] := \frac{\left(f[xn1] * f[xn] * xn2\right)}{\left(f[xn2] - f[xn1]\right) * \left(f[xn2] - f[xn]\right)} + 
    \frac{\left(f[xn2]*f[xn]*xn1\right)}{\left(f[xn1]-f[xn2]\right)*\left(f[xn1]-f[xn]\right)} + \frac{\left(f[xn2]*f[xn1]*xn\right)}{\left(f[xn]-f[xn2]\right)*\left(f[xn]-f[xn1]\right)}
f[x] := x^3 + 6x^2 + 6x + 1
Plot [f[x], \{x, -6, -3\}]
 10
                                                           -3.5
-10
-20
xn2 = -0.9;
xn1 = -0.8;
xn = -0.5;
prom = parabolINTER[xn2, xn1, xn, f];
error = Input[];
While [Abs [prom - xn] ≥ error,
 xn2 = xn1;
 xn1 = xn;
 xn = prom;
 prom = parabolINTER[xn2, xn1, xn, f];
Print["OTBeT:", N@prom]
Ответ:-0.208712
N@Solve[x^3 + 6x^2 + 6x + 1 = 0, x]
\{\{x \rightarrow -1.\}, \{x \rightarrow -4.79129\}, \{x \rightarrow -0.208712\}\}
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