Метод обратной параболической интерполяции

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Выполнил: Сайков Константин
         Группа:ПМ1801
        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
ln[107] = Plot[f[x], \{x, -6, -3\}]
          10
                                                                  -3.5
Out[107]=
         -20
        xn2 = -21;
        xn1 = -11;
        xn = -8;
        prom = parabolINTER[xn2, xn1, xn, f]
        prov = False;
        While [Abs [f[prom] -0] \geq 1,
          Print[N@prom];
          xn2 = xn1;
          xn1 = xn;
          xn = prom;
          prom = parabolINTER[xn2, xn1, xn, f];
         Print["OTBET:", N@prom]
           13 879 843
           2023131
```

- -6.86058
- -5.74202
- -5.13403
- -4.86537

Ответ:-4.79649

N@Solve[
$$x^3 + 6x^2 + 6x + 1 == 0, x$$
] $\{ \{x \to -1. \}, \{x \to -4.79129 \}, \{x \to -0.208712 \} \}$