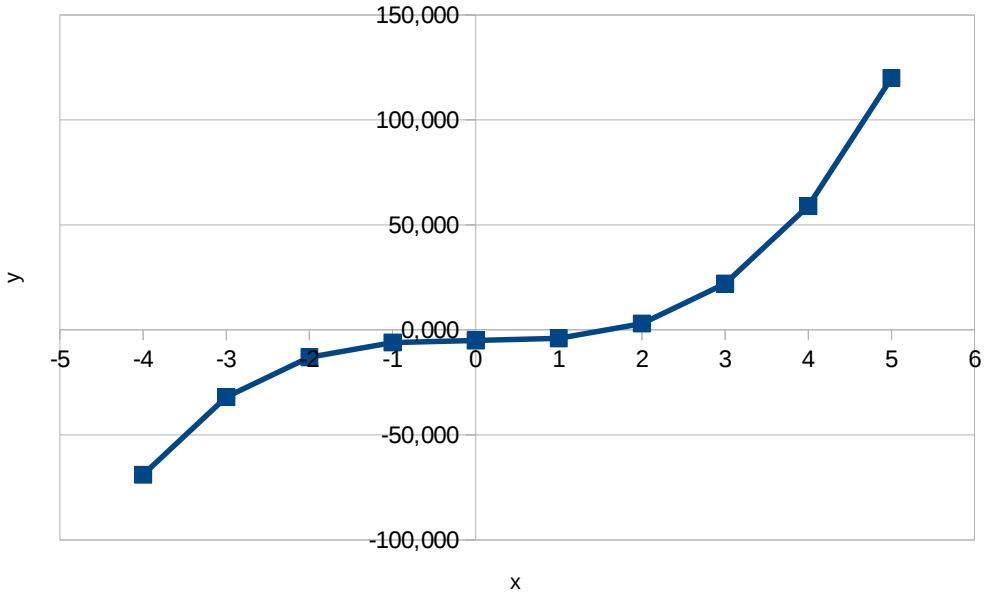
Exemplo 2 – Newton-Raphson

f(x) $x^3 - 5$

x	f(x)
-5	-130,000
-4	-69,000
-3	-32,000
-2	-13,000
-1	-6,000
0	-5,000
1	-4,000
2	3,000
3	22,000
4	59,000
5	120,000



e **0,001**

f´(x) = $3x^2$

f''(x) = $6x$

b) Melhor extremo (valor inicial), onde f(x)*f''(x) > 0

x	f(x)	f''(x)	f(x)*f''(x)	
1	-4,000	6,0000	-24	
2	3,000	12,0000	36	**<--- Aqui**

							$\lvert x_{i+1} - x_i \rvert$	
N	**x_(i)**	**f(x)**	**f'(x)**	**x_(i+1)**	**E_ideal**	**E**		
1	2	3,00000	12	1,7500	0,001	**0,2500**		
2	1,7500	0,35938	9,1875	1,7109	0,001	**0,0391**		
3	1,7109	0,00797	8,781376	1,7100	0,001	**0,0009**	FIM!	

Solução: **1,7100**