E02 FREDERICO MINUZZI ANNO001

IIQ03

POSIÇÃO FALSA ; ESTIMATIVA INICIAL a_1: -0,663

b_1: 0,787

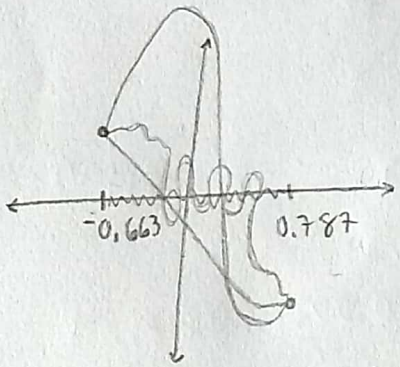
$f(x) = x^3 - 4x - 1$ P_S: ?

* CONTÍNUO? ✓

* TESTE:

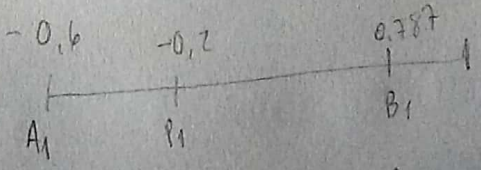
$f(a_1) = 1,360565753$ → OUVE UMA MUDANÇA DE SINAL...

$f(b_1) = -3,660556597$



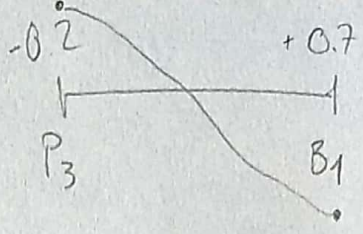
$$P_1 = \frac{(-0,663 \cdot -3,660556597) - (0,787 \cdot 1,360565753)}{-3,660556597 - 1,360565753} = -0,269553807$$

$f(P_1) = 0,058629164924...$



P_1 -0.269553807

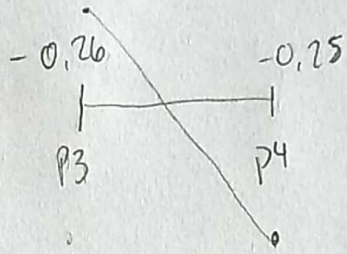
$f(P_1)$: 0.05862964924



P_2: $-0.269553807 \cdot -3.660556597 - 0.787 \cdot 0.05862964924$

$-3.660556597 - 0.05862964924$

$= -0.25289981799$ $f(P_4)$: -0.004582013059

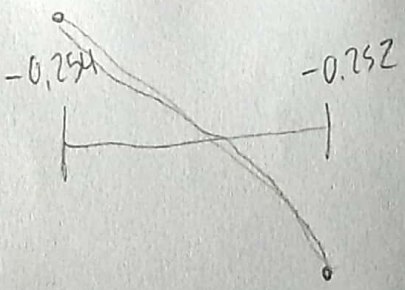


P_3: $-0.269553807 \cdot -0.004582013059 - (-0.25289981799 \cdot 0.05862964924$

$-0.004582013059 - 0.05862964924$

$= -0.2541054935$ $f(P_5) = 1.448346268 \times 10^{-5}$

0.00001448346268



$P_4 = -0.25289981799 \cdot 0.00001448346268 - (-0.004582013059 \cdot -0.2541054935)$

$0.00001448346268 - -0.004582013059$

$= -0.2541016893$ (A)