WolframAlpha computational intelligence

2.81E-04 = 3.90E-04*((0.257 + x*(0.012^1.5/(0.0496^1.5 + 0.012^1.5)))/(1+0.257+x*(0.012^1.5/(0.0496

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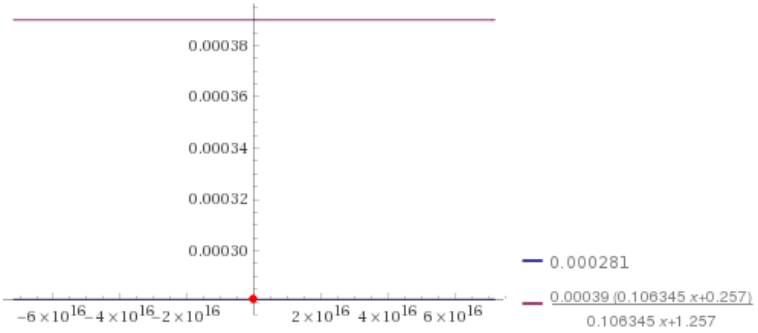
Input interpretation:

$$2.81\times10^{-4} = 3.9\times10^{-4}\times\frac{0.257 + x\times\frac{0.012^{1.5}}{0.0496^{1.5}+0.012^{1.5}}}{1 + 0.257 + x\times\frac{0.012^{1.5}}{0.0496^{1.5}+0.012^{1.5}}}$$

Result:

$$0.000281 = \frac{0.00039\,(0.106345\,x + 0.257)}{0.106345\,x + 1.257}$$

Plot:



Alternate form assuming x is real:

$$\frac{33.6449}{x + 11.82} = 1$$

Alternate forms:

$$0.000281 = 0.00039 - \frac{0.00366729}{x + 11.82}$$

$$0.000281 = \frac{0.00039\,(x + 2.41665)}{x + 11.82}$$

$$0.000281 = \frac{0.00039\,x + 0.000942494}{x + 11.82}$$

Alternate form assuming x is positive:

$x = 21.8249$ (for $x \neq -11.82$)

Expanded form: Step-by-step solution

$$0.000281 = \frac{0.0000414747\,x}{0.106345\,x + 1.257} + \frac{0.00010023}{0.106345\,x + 1.257}$$

Alternate form assuming x>0:

$$0.000281 = \frac{0.00039\,x + 0.000942494}{x + 11.82}$$

Solution: Step-by-step solution

$x \approx 21.8249$

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