

[Equations calculator](#)[Matrix calculator](#)[About](#)

## Equations solving

This will show input info.

1. Function must start with 'f(x) = '
2. Supported Functions:
  - Math.pow(x,2) => x^2
  - ...
  - Math.sin(x) => sin(x)
  - Math.cos(x) => cos(x)
  - tg(x) => tan(x,2)
  - ch(x) => cosh(x,2)
  - sh(x) => sinh(x,2)
  - ...
  - ln(x) => log(x)
  - Math.log2(x) => log(x,2)
  - ...
  - |x| => abs(x)
3. Supported Constants:
  - Math.E => e
  - Math.Pi => pi
4. Supported localization values:
  - numbers
  - +/- Pi
5. Minimal accuracy value is 1E-10

**Function** $f(x) = \log(1+x^2) - (\sin(x))^3 + x - (1+(\cos(x))^3)^{(1/2)}$ **Method**

2) Newton's Method

**Start Point**

0.1

**End Point**

2

**Accuracy**

0.01

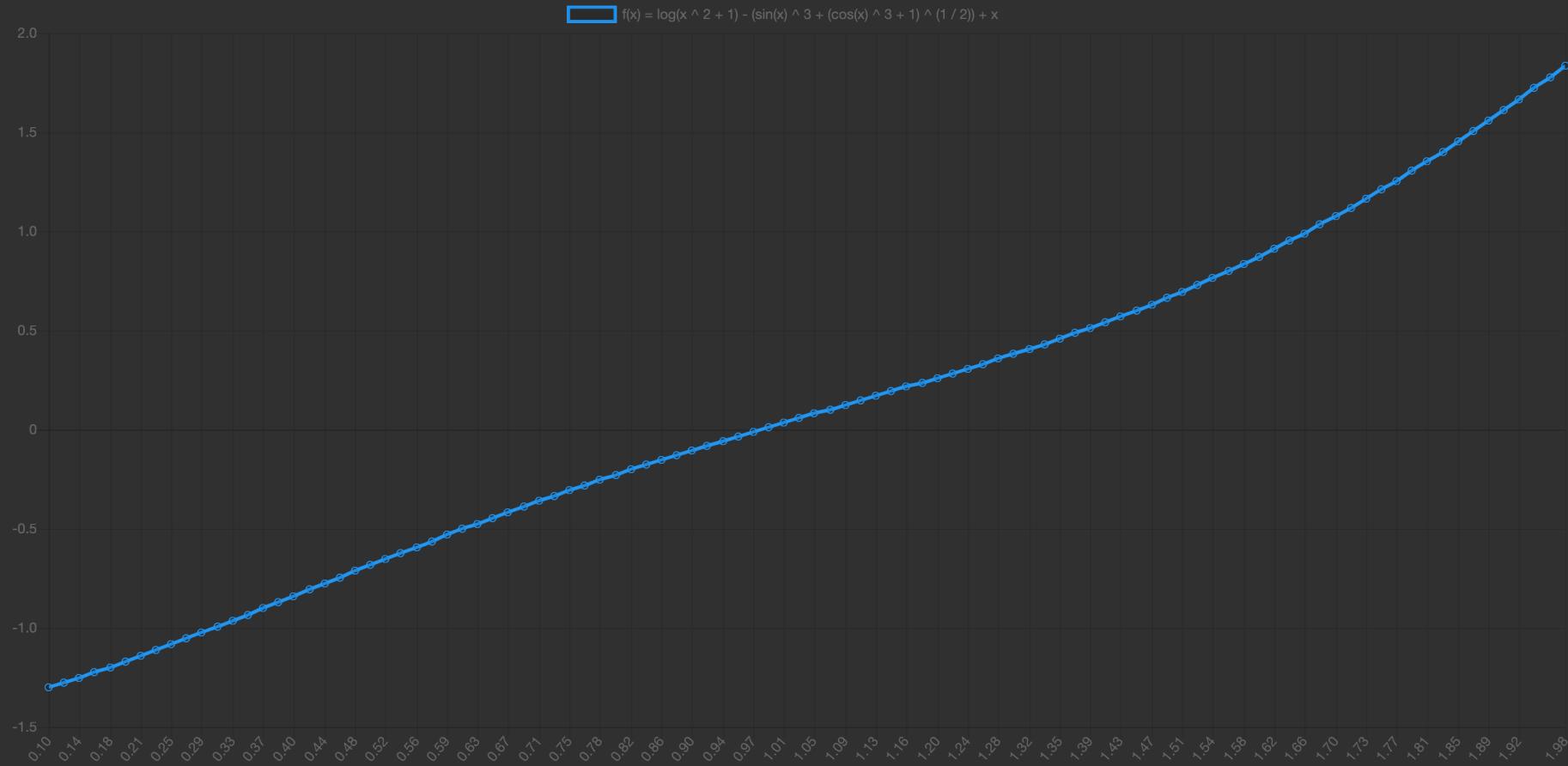
**CALCULATE****Start Step**

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First Derivative:  $f'(x) = x^2 / (x^2 + 1) - (3 * \cos(x) * \sin(x)^2 + \sin(x)^{-3} / 2 * \cos(x)^2 * (\cos(x)^3 + 1)^{(-1/2)}) + 1$

Alpha: 1.2734960454908348

Start Value: 2

Exit Criterion Value: 1.2734960454908348e-10

Iterations

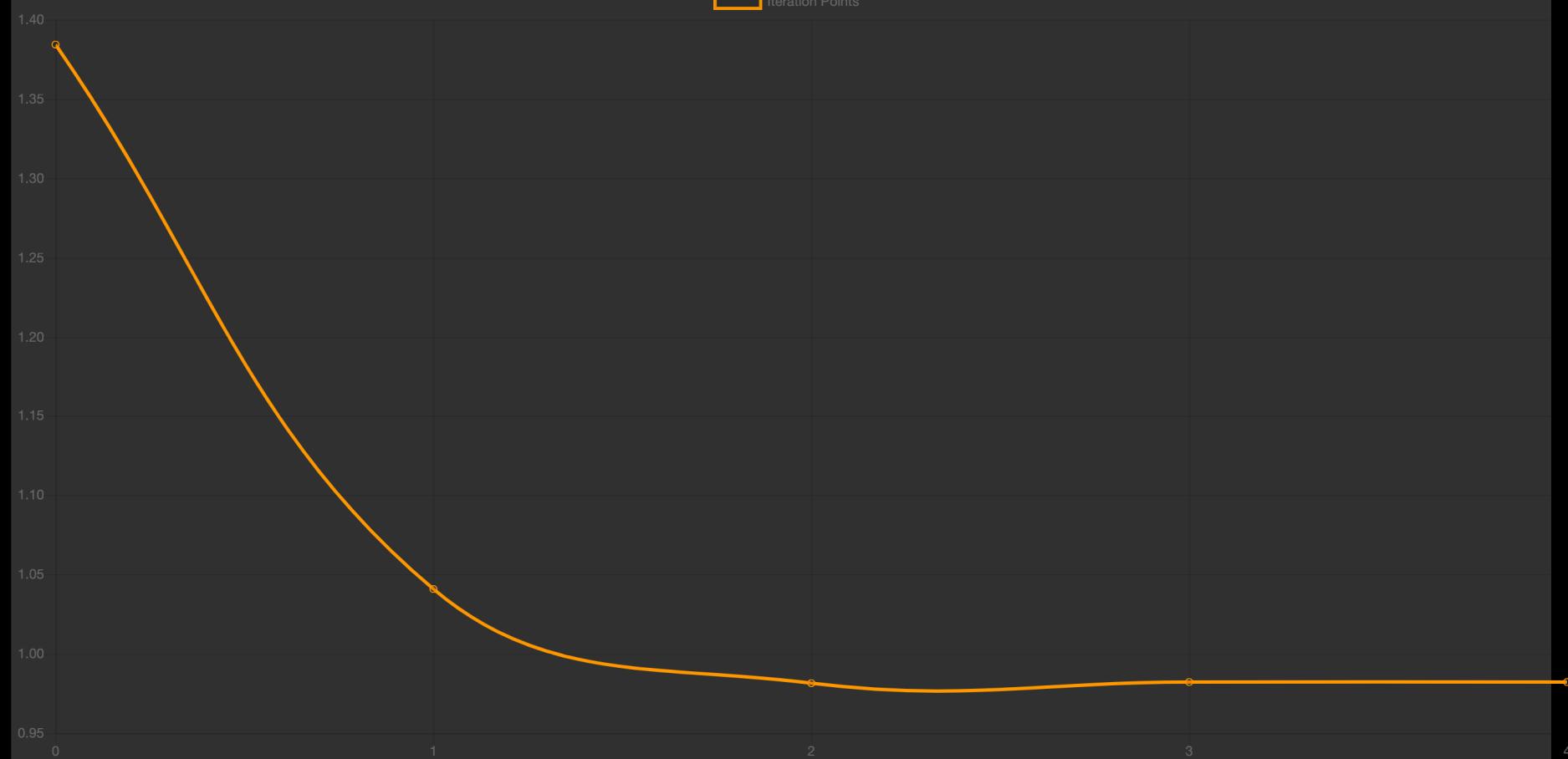
Iteration Points

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#i	$x(i-1)$	$x(i)$	$ x(i)-x(i-1) $
1	2	1.3844508087260614	0.6155491912739386
2	1.3844508087260614	1.0407994574743722	0.3436513512516892
3	1.0407994574743722	0.98172653090277	0.059072926571602236
4	0.98172653090277	0.9821931119620635	0.000466581059293536
5	0.9821931119620635	0.9821931577517948	4.5789731339951345e-8

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