x =0.5*((2*x-1)^(1/3)+1)

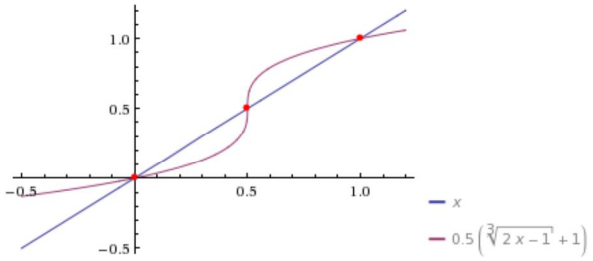
Examples Random

Assuming the real-valued root | Use the principal root instead

Input:

$$x = 0.5\left(\sqrt[3]{2\,x-1}+1\right)$$

Plot:



$\sqrt[n]{x}$ is the real-valued n^{th} root of x

Alternate forms:

$$x = 0.5\left(\sqrt[3]{2\,x-1}+1.\right)$$

$$x - 0.5\sqrt[3]{2\,x-1} = 0.5$$

Expanded form: Step-by-step solution

$$x = 0.5\sqrt[3]{2\,x-1} + 0.5$$

Alternate form assuming x is real:

$$x = 0.5\sqrt[3]{2\,x-1} + (0.5 + 0.\,i)$$

Solutions: Approximate forms Step-by-step solution

$$x = 0$$

$$x = \frac{1}{2}$$

$$x = 1$$

POWERED BY THE **WOLFRAM LANGUAGE**

Related Queries:

- = Reduce[x, 0.5*(Surd[2*x - 1, 3] + 1)]
- = rank of the Mathematica function Equal
- = Order(x, 0.5 ((2 x-1)^(1/3)+1))
- = mathematica:Graphics @@ {Table[Rotat…