

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

Examples

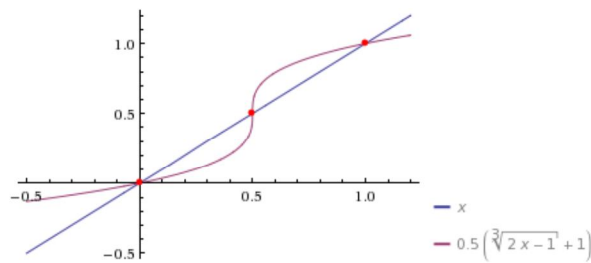
Random

Assuming the real-valued root | Use [the principal root](#) instead

Input:

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

Plot:

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

Alternate forms:

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

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

Expanded form:

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

[Step-by-step solution](#)Alternate form assuming x is real:

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

Solutions:

[Approximate forms](#)[Step-by-step solution](#)

$$x = 0$$

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

$$x = 1$$

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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...

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