$$\sqrt{\frac{x-1}{2x+1}} = \frac{1}{2}$$

$$\frac{x-1}{2x+1} = \frac{1}{4}$$

$$4x-4=2x+1$$

$$2x=5 | x=\frac{5}{2} |$$

$$\begin{cases} \frac{1}{2} \ge 0. \times \Rightarrow \forall \times \epsilon \mathbb{R} \\ \frac{1}{2} \ge 0. \times \Rightarrow \forall \times \epsilon \mathbb{R} \end{cases}$$

$$\frac{x-1}{2x+1} = \frac{1}{4}$$

## GENERALIZZAZIONE IMPORTANTE

$$\sqrt[n]{f(x)} = g(x) \quad \text{in PARI} \Longrightarrow \begin{cases} g(x) \ge 0 \\ f(x) = g^n(x) \end{cases}$$

$$\sqrt[n]{f(x)} = g(x) \quad \text{M DISPARI} \implies f(x) = \sqrt[n]{x}$$

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$$(a+b)^3 = a^3 + 3a^2b^2 + 3ab^2 + b^3$$

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

$$\sqrt[3]{x^3-2} + 2 = \times$$

$$\sqrt[3]{x^3-2} + 2 = \times$$

$$6x^2 - 12x + 6 = 0$$

$$x^2 - 2x + 1 = 0$$

$$(x - 1)^2$$

$$\sqrt{x-2} + 2 = x 
\sqrt[3]{x^3-2} = x-2 
x^3-2 = (x-2)^3$$

$$6x^2-12x+6=0 
(x-1)^2=0 
(x-1)^2=0 
(x-1)^2=0$$

$$\sqrt{X^2} = |X|$$

$$\sqrt{(-5)^2} = |-5|$$

$$(x-1)^2 = 4$$

$$\sqrt{(x-1)^2} = \sqrt{4}$$

$$x-1=2$$

$$y=y$$

$$y=y$$

$$\sqrt{3x^{2}-2x+1} = \sqrt{3x-1}$$

$$3x^{2}-2x+1 \ge 0$$

$$3x-1 \ge 0$$

$$3x^{2}-7x+1 = 3x$$

$$3x^{2}-7x+1 = 0$$

$$\triangle = 25 - 24 = 1$$

$$X = \frac{5 \pm 1}{6} = \frac{3}{4}$$