

$$\frac{m}{\sqrt{f(x)}} = g(x)$$

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$$\begin{cases} g(x) > 0 \\ f(x) = g(x) \end{cases}$$

$$g''(x) = [g(x)]^{m}$$

$$\sqrt{x^2 - 1 - 5(x - 1)} + 3x = 3$$

$$\left[1;\frac{5}{8}\right]$$

$$\sqrt{x^2-1-5(x-1)} = 3-3x$$

$$\begin{array}{c|c}
(3-3x \ge 0) \\
\times -1 - 5(x-1) = (3-3x)^{2}
\end{array}$$

$$X = \frac{13 \pm 3}{16} = \frac{1}{10} = \frac{5}{8}$$