ON THE UNIQUENESS OF THE SOLUTION OF SOME POLYNOMIAL EQUATIONS

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Problem. *Let $n > 1$ be an integer. Let $k_j > 1$ for each $j = 1, 2, \ldots, n$. Show that the equation*

$$\prod_{j=1}^{n} (1 - x^{k_j}) = 1 - x \,.$$

has exactly one solution in the interval $(0, 1)$.

Proposed solution.

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