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This month's "free sample" is:

4117. *Proposé par Martin Lukarevski.*

La suite (x_n) est définie de façon récursive par $x_0 = 0, x_1 = 1$ et

$$x_{n+1} = x_n \sqrt{x_{n-1}^2 + 1} + x_{n-1} \sqrt{x_n^2 + 1}, \quad n \geq 1.$$

Déterminer une expression pour x_n .

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4117. *Proposed by Martin Lukarevski.*

The sequence (x_n) is given recursively by $x_0 = 0, x_1 = 1$,

$$x_{n+1} = x_n \sqrt{x_{n-1}^2 + 1} + x_{n-1} \sqrt{x_n^2 + 1}, \quad n \geq 1.$$

Find x_n .

