

Cal Poly Department of Mathematics

Puzzle of the Week

Feb 19-25, 2010

Define a sequence by $a_1 = 1$ and $a_n = \cos(\tan^{-1}(a_{n-1}))$ for $n > 1$. Find

$$\lim_{n \rightarrow \infty} a_n$$

Solutions should be submitted to Morgan Sherman:

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before next Friday. Those with correct and complete solutions will have their names listed in next week's email announcement. Anybody is welcome to make a submission.