

Cal Poly Department of Mathematics

Puzzle of the Week

Nov 20 - Dec 1, 2014

From Tom O'Neil:

A triangle has vertices A, B, C , with right angle at vertex A . Suppose D is a point on the hypotenuse \overline{BC} such that $|BD| = |AD| + 1$, $\angle BAD = \pi/4$ and $|DC| = 1$. Calculate the length $|AD|$.

Solutions should be submitted to Morgan Sherman:

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before next Thursday. Those with correct and complete solutions will have their names listed on the puzzle's web site (see below) as well as in next week's email announcement. Anybody is welcome to make a submission.

<http://www.calpoly.edu/~sherman1/puzzleoftheweek>