

# Cal Poly Department of Mathematics

## Puzzle of the Week

Jan 31 - Feb 6, 2013

Beth stands at point  $P$  in the Euclidean plane and then takes three unit-length steps, each in a randomly chosen direction. What is the probability she ends up within a unit distance of  $P$ ?

*Solutions should be submitted to Morgan Sherman:*

*Dept. of Mathematics, Cal Poly*

*Email: sherman1 -AT- calpoly.edu*

*Office: bldg 25 room 310*

*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>