

Cal Poly Department of Mathematics

Puzzle of the Week

April 24-30, 2012

A convex octagon is inscribed in a circle and has four consecutive sides of length 3 and four consecutive sides of length 4. Find its area and express your answer in the form $a + b\sqrt{c}$ with a, b, c positive integers.

Solutions should be submitted to Morgan Sherman:

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before next Tuesday. 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>