

Regular n -gons and Special Polynomials: A Short Note

Michael W. Ecker

Pennsylvania State University at Wilkes-Barre

Abstract:

This article provides insight into special polynomials of degree n and their relationship to the regular unit n -gon (i.e., with a circumscribed circle of radius 1). The specific questions answered involve distances between various vertices.



Michael W. Ecker retired as associate professor of mathematics at Pennsylvania State University's Wilkes-Barre campus in 2016. He received his PhD in mathematics from the City University of New York in 1978. Published regularly as a traditional mathematician, recreational mathematician, problem solver, or computer journalist, he also served on several national committees responsible for creating competitive national exams. For 21 years, he labored over his own newsletter, *Recreational & Educational Computing*, featuring the interplay of mathematics, computers, and recreations. Besides owning a hundred computers, he is the author of 500 news- letters, columns, reviews, articles, and books in mathematics or computing