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Abhinav R Ganesh* (montuganesh@yahoo.com). *Investigations in Number Theory and Calculus.*

In our presentation we discuss the solutions to several problems published in American Regions Mathematics League (ARML) and the Romanian monthly Mathematical Gazette. The inspirations for the solutions comes from the Fullerton Mathematical Circle, the outreach program of the Department of Mathematics at Cal State Fullerton. The solutions explore interesting properties of equations and roots, functions, and exponents along with polynomials. The content of our presentation is accessible to undergraduate students. (Received September 10, 2017)