1046-Z1-1891 **Elijah Miguel Allen***, 1413 Blakeley st, Savannah, GA 31406. *Arbitrary Roughness.*

When are 4n+1 and 4n+3 both prime? What values of n make 2n+1, 4n+3, and 8n+7 all prime at the same time? With the theorems presented in this paper the required conditions a value n must meet are seen and used to develop an algorithm to find such numbers. Finally, it is shown that for any set of arithmetic progressions that do not represent a complete residue set for any prime that there exist infinitely many n such that the entire set is arbitrarily rough and what this means towards solving problems like the twin prime conjecture. (Received September 16, 2008)