

Solutions to Two Open Questions on Super Niven Numbers

Amin Witno and Khaled Hyasat

*Department of Basic Sciences and Mathematics,
Philadelphia University, Jordan 19392*

E-mail: awitno@gmail.com, k_hyasat@philadelphia.edu.jo

Abstract

A natural number is called super Niven when it is divisible by all its subdigital sums. We identify all powers of 2 which are super Niven and prove that there are infinitely many pseudo-super Niven numbers.

AMS Subject Classification: 11A63.

Keywords: Digital sums, super Niven numbers.