

## planetmath.org

Math for the people, by the people.

## Carmichal number 561

Canonical name CarmichalNumber561
Date of creation 2015-07-12 6:12:20
Last modified on 2015-07-12 6:12:20
Owner akdevaraj (13230)
Last modified by akdevaraj (13230)

Numerical id

Author akdevaraj (13230)

Entry type Definition

is the smallest Carmichael number in the ring of integers. However it is only a pseudoprime in the ring of Gaussian integers. We can use pari to find the bases to which 561 is a pseudoprime. I found it is pseudoprime to bases 12+i, 22+i, 33+i and 44+i. Needless to say it is a pseudoprime to other bases too. More on this later.