

Haukkanen, Pentti

Some characterizations of totients. (English) Zbl 0846.11005
[Int. J. Math. Math. Sci. 19, No. 2, 209-217 \(1996\)](#).

An arithmetical function f is a totient if it has the form $f = g * h^{-1}$ with completely multiplicative functions g, h (star is Dirichlet convolution). A typical example is Euler's function $\varphi = \text{id} * e^{-1}$. The author gives several characterizations of totients and proves their properties. The proofs are elementary.

Reviewer: [J.Spilker \(Freiburg i.Br.\)](#)

MSC:

[11A25](#) Arithmetic functions; related numbers; inversion formulas

Cited in **8** Documents

Keywords:

[arithmetical function](#); [totient](#); [completely multiplicative functions](#); [Dirichlet convolution](#)

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