Amitabha Tripathi

A note on products of primes that differ by a fixed integer,
Fibonacci Quart. 48 (2010), no. 2, 144–149.

Abstract

Let $d$ be a fixed even integer. We characterize positive integers $n$ that are products of two primes that differ by $d$. These characterizations are in terms of Euler’s $\phi$ function and the sum of divisors function $\sigma$, and generalize some known results in the case $d = 2$. 