M. S. Stillman (1895)

Problem of the Week

Finishing date: 10/06/2017

Suppose that $a, b > 0$ are relatively prime integers. Find all possible common prime factors of $(a + b)$ and $\dfrac{a^{2017} + b^{2017}}{a + b}$.

Previous problem winners:

Stephen Skapek (first solution)
and Iakov Rachinskiy.

All the information about the Problem of the Week challenge can be found at:
`utdallas.edu/math/undergraduate/problem-of-the-week`