Title: On the simultaneous equations $\sigma(2^a) = p^{f_1}q^{g_1}$, $\sigma(3^b) = p^{f_2}q^{g_2}$, $\sigma(5^c) = p^{f_3}q^{g_3}$

Author(s): Tomohiro Yamada

Let $\sigma(N)$ denote the sum of divisors of N. We shall solve the simultaneous equations $\sigma(2^a) = p^{f_1}q^{g_1}$, $\sigma(3^b) = p^{f_2}q^{g_2}$, $\sigma(5^c) = p^{f_3}q^{g_3}$ with p, q distinct primes.

Address:
Tomohiro Yamada
Center for Japanese
Language and Culture
Osaka University
8-1-1, Aomatanihigashi
Minoo, Osaka - 562-8558
Japan