

Problem 4 (due on Monday, March 28)

The number $N = \frac{1}{2}ab(a^4 + b^4)$, where a, b are positive integers such that $a^4 + b^4 = 1 + ab(1 + 2 + 3 + \dots + (a + b))$. What is N ?

We have not received any solutions. The number $N = 2022$. For a complete solution see the following link [Solution](#).

From:

<http://www2.math.binghamton.edu/> - **Department of Mathematics and Statistics,
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Permanent link:

<http://www2.math.binghamton.edu/p/pow/problem4s22>

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