Problem 6 (due Monday, May 10)

Let A and B be square matrices of the same size such that $A^{2020}=I=B^{2020}$ and $AB=-BA$. Prove that $I+A+B$ is invertible. (Here I is the identity matrix).

No solutions were submitted. For a detailed solution see the following link Solution.

From:
http://www2.math.binghamton.edu/ - **Department of Mathematics and Statistics, Binghamton University**

Permanent link:
http://www2.math.binghamton.edu/p/pow/problem6s21

Last update: **2021/05/11 07:45**