

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:

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