

Welcome to your Linear Algebra 1 exam!

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The use of the (Magma) calculator is allowed.

Recall:

$A, B \in \text{Mat}_{n \times n}$  are **conjugate** ( $A \sim B$ ) if  $AP = PB$  for some  $P \in \text{GL}_n$ .

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Over  $\mathbb{Z}$ : no! Every such a  $P$  must have even determinant.

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**Answer:** ....check the arXiv in the next couple of days....

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Congrats: you passed the exam!