## MATB24. Quiz #7, TUT #19

<ul> <li>(1) (4 point) In each part, give a complete definition, or mathematical characterization of the word in bold.</li> <li>(a) A hermitian matrix</li> </ul>
(2) (5 point) Give an example of the described object or explain why such an example does not exist. (a) A unitary matrix that is not in $M_{2x2}(\mathbb{R})$
<ul><li>(3) (6 point) Answer the following question:</li><li>(a) Find the complex fourth roots of -1.</li></ul>