MATB24. Quiz #7, TUT # 4

- (1) (4 point) In each part, give a <u>complete</u> definition, or mathematical characterization of the word in bold.
 - (a) An isometry
- (2) (3 point) Give an example of the described object or explain why such an example does not exist.
 - (a) A non-orthogonal linear transformation that takes an orthogonal basis to an orthogonal basis
- (3) (8 point) Answer the following question:
 - (a) Find the complex fourth roots of -16.