EXAM FOR "LINEAR ALGEBRA 4" (6LAG4) SUMMER SEMESTER 2023/2024

QUESTIONS SET NO. 2

- **1.** Define projectivization of a linear map. Give examples of projectivizations. Give examples of maps between projective spaces which are not projectivizations of any linear map between corresponding linear spaces.
- **2.** Give an example of a linear programming problem which has:
- 1) no solutions;
- 2) infinite countable number of solutions.
- **3.** Prove that any affine map from a 4-dimensional affine space to a 3-dimensional affine space is not injective.