Name-Surname:
Student No: **Class:** **Grade:**

MAT435 **Computer Aided Geometric Design**

Quiz 1

07.10.2003

- **YOU must write GOOD Mathematics, clearly explaining each step of your proof. Otherwise, no objection!**

1. Find the *affine* mapping which transforms the *line* between the points (-1,-1) and (-1,1) to the *line* between the points (0,0) and (1,1).

2. Let $(x, y) \in \mathbb{E}^2$. Derive the *rotation* matrix (an *affine* mapping) which transforms (x, y) to $(\widehat{x}, \widehat{y})$ by α degrees counterclockwise. *Hint: Polar coordinates*