Intro Lin Alg

(10 pts.)

Quiz 5

1. Find the LU-decomposition of the matrix A.

$$A = \begin{bmatrix} 3 & -2 & 2\\ 6 & -9 & 2\\ -3 & 7 & 0 \end{bmatrix}$$

2. Find the standard matrix of T^{-1} if $T : \mathbb{R}^2 \to \mathbb{R}^2$ is the linear transformation which rotates vectors in \mathbb{R}^2 by 90° counter-clockwise and then scales the *x*-value of the resulting vector by a factor of 2. (10 pts.)