

Weekly test #3

Name:

Surname:

Exercise 1

Calculate the inverse of the following matrix:

$$\begin{pmatrix} 3 & 1 \\ 2 & 2 \end{pmatrix}$$

Write your solution here:

Exercise 2

Let $\vec{u} = (1, 0, 2)$, $\vec{v} = (5, 3, 4)$ and $\vec{w} = (1, 1, 0)$ be vectors in \mathbb{R}^3 . Are they linearly independent?

Write your solution here:

Exercise 3

State Cramer's Theorem.