

Assignment 18

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The link to the solution is

<https://github.com/Adarsh1310/EE5609>

Abstract—This documents solves a problem based on coordinates.

1 PROBLEM

Describe explicitly the linear transformation T from \mathbb{F}^2 into \mathbb{F}^2 such that $T\epsilon_1 = (a, b), T\epsilon_2 = (c, d)$.

2 SOLUTION

The transformation matrix can be written as,

$$V = \begin{pmatrix} a & b \\ c & d \end{pmatrix} \quad (2.0.1)$$