Linear Algebra Notes

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1 Introduction

1.1 Linear Equation

- A Linear Equation is an equation that can be written in the form

$$a_1x_1 + a_2x_2 + ... + a_nx_n = b$$

- The number $a_1, ..., a_n$ are called coefficients.

1.1.1 Example

$$-x_1 + \pi x_3 - \sqrt{2}x_4 = 0.007$$

Here the coefficient of first term x_1 is -1, coefficient of x_3 is π and coefficient of x_4 is $\sqrt{2}$.