

Outline

1. Introduction

2. Linear Equations $m \times n$

3. Matrix Operations

4. Inverse

5. Rank

6. Substitution *back substitution*

7. Gaussian Elimination

8. Gaussian-Jordan reduction *equivalent*

9. Inverse *equivalent*

$ax = b \quad AX = B. \quad x = a^{-1}b \quad \Leftrightarrow \quad X = A^{-1}B \quad \text{if } A^{-1} \text{ exists}$

Homework (due 020321)

1. 1.371 2. 2.672 3. 3.88

Learning Guide and Announcement

1. 1.1 2. 1.2 3. 1.3 4. 1.5

2. 1.1 2. 1.2

3. 1.1

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