

Lab 1 Example

1 Student Information

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2 Natural Numbers

The set of natural numbers is defined to be:

$$\mathbb{N} = \{1, 2, 3, \dots\}. \quad (1)$$

3 Subscripts and Superscripts

Let X be a 10×10 matrix.

3.1 Subscripts

X_i denotes the i th column of X , while X_{i_j} denotes the (i, j) th entry

3.2 Superscripts

X^T means X transposed. X_i^T is the i th column of X^T ; in other words, the i th row of X .

4 Equation Fun

- Here's the *quadratic equation*, for no particular reason:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \quad (2)$$

- Here's **Euler's identity**, for no particular reason:

$$e^{i\pi} + 1 = 0. \quad (3)$$