

This note, that [was found here](#), as a part of [a collection](#) is written (completely with human hands) by [Rupadarshi Ray](#), was created on July 7, 2025 1:17:32 PM, was last modified on December 28, 2025 10:59:45 AM, and was exported on September 7, 2026 2:50:40 PM.

$N(n, \mathbb{R})$

#Wiki/group/Lie

Definition. $N(n, \mathbb{R})$

$$N(n, \mathbb{R}) := \left\{ A \in \mathbf{Mat}(n, \mathbb{R}) \middle| \begin{array}{l} A \text{ is upper triangular} \\ \text{with 1 on diagonal} \end{array} \right\}$$

The Lie algebra is

Definition. $\mathfrak{n}(n, \mathbb{R})$

$$\mathfrak{n}(n, \mathbb{R}) := \left\{ L \in \mathbf{Mat}(n, \mathbb{R}) \middle| \begin{array}{l} L \text{ is upper triangular} \\ \text{with 0 on diagonal} \end{array} \right\}$$

$$\exp : \mathfrak{n}(n, \mathbb{R}) \rightarrow N(n, \mathbb{R})$$

Current note has 0 direct children and 0 total descendants.

- [squishy](#)
 - [N](#)
 - $N(n, \mathbb{R})$

And it has 1 siblings.

- [squishy](#)
 - [N](#)
 - $N(n, \mathbb{R})$