

Math 131A Notes

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- \mathbb{N} : Set of natural numbers (all positive integers)

N1. 1 belongs to \mathbb{N} .

N2. If n belongs to \mathbb{N} , then its successor $n + 1$ belongs to \mathbb{N} .

N3. 1 is not the successor to any element in \mathbb{N} .

N4. If n and m in \mathbb{N} have the same successor, then $n = m$.

N5. A subset of \mathbb{N} which contains 1, and which contains $n + 1$ whenever it contains n , must equal \mathbb{N} .