Definition 3.j.4. [1B1] *By definition* [a] "a set A is **finite** and has cardinality n" *if it is equipotent to a set* E_n *(for a choice of* $n \in \mathbb{N}$*; note that there is at most one* n *for which this may hold, by the above Lemma).So when the set is finite,* $|A|$ *is identified with the natural number of its elements; we will write* $|A| = n$*. If a set isn't finite, then it is* ***infinite***.

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[a] This is the definition presented in the course. There are also other definitions of "finite set" [**?**]. See for example the exercise [04M]