

Basics

Declare the environments under `amsthm` in the metadata, grouped by style, and use each one as the class of a fenced div.

Definition 1. A *group* is a set with an associative operation, an identity element, and an inverse for each element.

A definition has a bold heading and an upright body. A theorem, in the `plain` style, has an italic body, in which *emphasis* turns upright:

Theorem 1 (Lagrange). *The order of a subgroup of a finite group divides the order of the group.*

The `info` attribute is the note in parentheses, and may contain Markdown. Lemma is listed under Theorem, so it shares its counter:

Lemma 2. *A group of prime order is cyclic.*

A trailing `*` makes an environment unnumbered. A name with a space is written with an underscore as a class:

Main Theorem. *Every finite group of prime order p is isomorphic to $\mathbb{Z}/p\mathbb{Z}$.*

Remark 1. The `remark` style has an italic heading and an upright body.

`proof` is always defined, and ends with an open box:

Proof. By Lagrange's theorem, the subgroup generated by any element other than the identity is the whole group. □

Its `info` replaces the heading:

Proof of the Main Theorem. Map a generator to 1. □