

# Guide to presenting Lemma, Theorems and Definitions

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Has anyone ever found a good text which discusses how to present Lemmas, Theorems and Definitions? I often find it tricky, especially for longer ones.

Short ones are often OK, for example:

Lemma: For any vector space  $V$ ,  $q(V) = 0$ .

But longer ones can get messy (note, the following isn't correct maths, just a long Lemma).

Lemma: For any vector spaces  $V$ , group  $G$ , element  $g$  in  $G$ , integer  $x$  such that  $g^x = g$  then given  $z$  is a solution to the equation  $z=x^3$ ,  $V(xz)=g$

I'm sure there must be a good general framework for defining all the bits of Lemmas, but I've found it suprisingly hard to find.

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