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1   Three examples

Example 1.   Create a label in this first example `\label{ex:1}`. This is the first example. The `example` counter will be reset at the start of each new each document `\section`.

Example 2.   And here's another numbered example. Create a second `\label{ex:2}` to later reference this one. In Example 1 we read... something.

Example 3.   And here's another numbered example: use `\theexample` to typeset the number currently assigned to the `example` counter: it is 3.

2   Another section

We've just started a new section meaning that the `example` counter has been set to 0. We'll reference examples from the previous section (Examples 1 and 2). This is a dummy section with no purpose whatsoever but to contain text. The `section` counter for this section can be typeset using `\thesection`: it is currently assigned the value of 2.

Example 1.   This is the first example in this section: the `example` counter has been stepped and now set to 1.