Remarks about the notion of EXISTENCE in mathematics.

There are different situations in which we use the word "exist" and the meaning meant in each one may not be exactly the same.


What is the relationship between "it exists" and "there is"? Examples of uses of there is: there is in my fantasy; there is in my hopes; there is among my projects; there is in my dreams.

Examples of existence in mathematics: existence of a specific number system; existence of a single number; existence of a solution (and the solution may be either a way of behaving or an object with adequate properties).

The presence of all these different situations requires a closer attention to what is meant by it exists.

In my presentation, I plan to make same remarks and comments on the above hinted difficulties. (Received September 20, 2007)