A demonstration of bad definitions

This is a demonstration of why and how definitions can be poorly written.

I have decided to create a new word that I want you to use.

Definition:

Wanting to go to sleep blongly

Use the word in a sentence.

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You can't because I didn't say what I was defining, like not saying "The definite integral of f over [a, b] is".

OK, so ...

Definition:

Blork is wanting to go to sleep blongly

Use the word in a sentence.

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You still can't because in the definition I used another term that I didn't explain,

like not saying "
$$\Delta x = \frac{b-a}{n}$$
 and $a + (i-1)\Delta x \le x_i^* \le a + i\Delta x$ ".

OK, so ...

Definition:

Blork is wanting to go to sleep blongly, where blongly means earlier than usual.

Use the word in a sentence.

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You still can't because I didn't give a context for how the word is used (noun, verb, adjective, action, condition ?),

like saying "
$$\lim_{n \to \infty} \sum_{i=1}^{n} f(x_i^*) \Delta x$$
" but not saying " $\int_{a}^{b} f(x) dx = \lim_{n \to \infty} \sum_{i=1}^{n} f(x_i^*) \Delta x$ "

OK, so ...

Definition:

Being in blork means wanting to go to sleep blongly, where blongly means earlier than usual.

Use the word in a sentence.

So, now you say "I've been studying so hard lately, that last night, I was in blork".

And that makes me laugh, because I didn't specify the conditions under which the word is used, like not saying "if the limit exists".

Definition:

Being in blork means wanting to go to sleep blongly, where blongly means earlier than usual. The term is applied to cows.

Since I didn't specify the conditions under which the word is used, you used it incorrectly (unless you are a cow).

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So, finally you say "Elsie the Cow was in blork because she spent all day standing in the hot sun", which is correct. Just like you should say

The definite integral of f over [a, b] is $\int_{a}^{b} f(x) dx = \lim_{n \to \infty} \sum_{i=1}^{n} f(x_{i}^{*}) \Delta x$ where $\Delta x = \frac{b-a}{n}$ and $a + (i-1)\Delta x \le x_{i}^{*} \le a + i\Delta x$, if the limit exists.