

## Re: Question about Lebesgue Integral

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*Source:* <http://sci.tech--archive.net/Archive/sci.math/2005-05/msg00678.html>

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- *From:* [magidin@xxxxxxxxxxxxxxxxxxxx](mailto:magidin@xxxxxxxxxxxxxxxxxxxx) (Arturo Magidin)
  - *Date:* Wed, 4 May 2005 17:39:13 +0000 (UTC)
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In article <t5qh715ake49d5v9q9svd2rcrh2n35s7b9@xxxxxxx>, David C. Ullrich <ullrich@xxxxxxxxxxxxxxxx> wrote:  
>On 3 May 2005 14:37:47 -0700, agapito6314@xxxxxxx wrote:  
>  
>>The Lebesgue integral  $I$ , of function  $f$  with respect to measure  $u$  is  
>>defined by  
>>  
>> $I(f du) = I(f_+ du) - I(f_- du)$   
>>  
>>where  $f_+$  and  $f_-$  are the positive and negative parts of  $f$ , respectively.  
>> Now my text (Bartle) states that "it is easy to see that if"  $f = v - w$ , with  $v$  and  $w$  non-negative, then  
>>  
>> $I(f du) = I(v du) - I(w du)$   
>>  
>>I don't see how this follows from the basic definition of  $I$  as supremum  
>>of integrals of simple functions. Can someone please help with a proof?  
>  
>You got several replies the first time you posted this question.

It's not his fault. Google is acting up, and the search function is missing lots of posts (can't figure out which ones it is missing). If he is doing a search/advanced search for his posts to see if anybody followed up, then they may not be showing up as a result (although they do show up in the extensive listing by newsgroup) and so he thinks they disappeared and posts again.

I don't really know what it is that google search is finding or not finding right now. It's not just the messages made through google, though.

For example, searching for "Ullrich" on the last 24 hours gives only three results (none of them related to you: one in Team Endorphin, one in de.comp.lang.c, one in rec.bicycle.racing

..... Hmmmm. It seems it may just be taking a long time before the search function "sees" them. Your messages of May 2nd seem to be

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showing up now (as do mine, although they didn't yesterday). Sigh...

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"It's not denial. I'm just very selective about  
what I accept as reality."  
--- Calvin ("Calvin and Hobbes")  
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Arturo Magidin  
magidin@xxxxxxxxxxxxxxxxxxxx

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• **References:**

◆ **Question about Lebesgue Integral**

◇ From: agapito6314

◆ **Re: Question about Lebesgue Integral**

◇ From: David C . Ullrich

• Prev by Date: **Re: Idle series question**

• Next by Date: **Re: "It is easy to see...."**

• Previous by thread: **Re: Question about Lebesgue Integral**

• Next by thread: **what does non-degenerate distribution mean?**

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