

Re: Question about Lebesgue Integral

Source: <http://sci.tech-archive.net/Archive/sci.math/2005-05/msg00612.html>

- *From:* David C. Ullrich <ullrich@xxxxxxxxxxxxxxxxxxxx>
 - *Date:* Wed, 04 May 2005 10:23:03 -0500
-

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.

> Thanks.

David C. Ullrich
.

- *Follow-Ups:*
 - ◆ [**Re: Question about Lebesgue Integral**](#)
◇ *From:* Arturo Magidin
- *References:*
 - ◆ [**Question about Lebesgue Integral**](#)
◇ *From:* agapito6314
- Prev by Date: [**Fun With Tangens**](#)
- Next by Date: [**Re: Game Theory question**](#)
- Previous by thread: [**Re: Question about Lebesgue Integral**](#)

Re: Question about Lebesgue Integral

- Next by thread: ***Re: Question about Lebesgue Integral***
- Index(es):
 - ◆ ***Date***
 - ◆ ***Thread***