

Re: ordered pairs/n-tuples as collections of sets

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- *From:* William Elliot <marsh@xxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Sun, 3 Jul 2005 20:41:45 -0700
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On Sun, 3 Jul 2005, Stephen J. Herschkorn wrote:

> Elotemuygrande wrote:
>
>> Suppose you define a 2-tuple this way, which I just found in a book.
>> $T=(a,b)=\{\{a\}, \{a,b\}\}$
>
> William Elliot gave some lovely definitions for T1 and T2 in terms of
> unions and intersections.

$$a = \bigwedge(a,b) = \bigvee(a,b)$$
$$b = (\bigvee(a,b) - \bigwedge(a,b)) \vee \bigwedge(a,b)$$

Thus instantly,
 $(a,b) = (r,s)$ iff $a = r, b = s$

- *References:*
 - ◆ [ordered pairs/n-tuples as collections of sets](#)
◇ *From:* Elotemuygrande
 - ◆ [Re: ordered pairs/n-tuples as collections of sets](#)
◇ *From:* Stephen J. Herschkorn
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