

Re: Cut a point into two – topological?

Source: <http://sci.tech-archive.net/Archive/sci.math/2007-02/msg04422.html>

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 - *Date:* 23 Feb 2007 14:13:37 -0800
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Bob Kolker wrote:

Hero wrote:

How does topology defines a „cut“?
Can one cut a point into two?

No. A point has no parts to separate.

Regard a point as a hole , so it can be "cut" into two just as several holes can merge into one:

You have the pair of intervalls $(3 , 4) , (4 , 5)$

and this pair $(5 + b , 8 + b) , (8 + b , 8.55 + b)$.

In between each pair is just one point: 4 and $8 + b$. Now let b move to $b = - 4$.

The points (holes) 4 and $(8 - b)$ merge. The opposite process (b different from minus 4) creates two points again.

With friendly greetings

Hero

PS In fairy-tales a dragon-head can be cut into two too.

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