

Cut a point into two – topological?

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The incenter and the outcenter of a triangle with equal sides are identical. In dynamical geometry I can deform the triangle and see two different centers emerge from one point (location) and by moving back they melt again into one in this place. (In numbers we can add 2 and 5 into 7, and we can split 7 into two different primes).

Topology is considering in geometry points and („open“) sets of points, especially sets of „connected“ points. So the opposite term of a „cut“, a dissection, separation is often heard about, also sometimes a „cut and paste“ or „cut and glue“–operation is mentioned. The opposite to a union of a subset and its complement in set theory divides a set into two subsets with its intersection equal to the empty set.

How does topology define a „cut“?

Can one cut a point into two?

With friendly greetings

Hero

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