

Snark Theorem Equivalent to the 4CT.

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The "snark theorem" (paraphrased) says the statement that "all snarks are non-planar" is equivalent to the 4CT.

The existence of a planar snark would prove the 4CT to be false; ie

- 1, A snark is not 3 edge colorable
2. Therefore the snark is cannot be 4 face colorable,

and the 4CT is false.

But is the absence of a planar snark sufficient to prove the 4CT true?

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