TWINS OF DISCONNECTED GRAPHS AND DISCONNECTED TWINS OF CONNECTED GRAPH

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Two non-isomorphic graphs G and H are called strong twins if G is isomorphic to a proper induced subgraph of H and H is also isomorphic to a proper induced subgraph of G. There are two conjectures about strong twins: the general version of graph alternative conjecture which says every graph has infinitely many strong twins or none, and and the connected version of graph alternative conjecture which says every connected graph has infinitely many connected strong twins or none. In this paper, we show that the general version of graph alternative conjecture can be driven from its connected version.

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