Problem #103

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Summary: Equational axiomatization of graph operations

Given a set of graph operations like disjoint union, edge-complement, quantifier-free definable operations (like relabellings). When can one axiomatize its equational theory by finitely many equational rules or by infinitely many rules describable in finitary ways?

See [BC87].

Bibliography

[BC87] Michel Bauderon and Bruno Courcelle. Graph expressions and graph rewritings. *Mathematical Systems Theory*, 20(2–3):83–127, 1987.

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