

relation as union of functions

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Every relation R is a union of functions with the same domain as R. This proposition of Doran is http://planetmath.org/Equivalent3equivalent to the http://planetmath.org/AxiomOfChoiceAxiom of Choice.

References

[1] R. S. DORAN: "A Theorem which is Equivalent to the Axiom of Choice".

– Elemente der Mathematik 27 (1972).