

equivalence relation

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1 Definizione

A relation \sim on a set S is called an *equivalence relation* if, for all $a, b, c \in S$, it satisfies:

- $a \sim a$ (reflexivity)
- $a \sim b$ implies that $b \sim a$ (symmetry)
- $a \sim b, b \sim c$ implies that $a \sim c$ (transitivity)

2 Symbol

\sim

3 Esempio

L'uguaglianza, $=$, è una relazione di equivalenza.