

# Relazione opposta

$$R \subseteq A \times B \quad R^{op} = \{(y, x) \mid (x, y) \in R\} \subseteq B \times A$$

Leggi:

convoluzione	$(R^{op})^{op} = R$
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op-id	$id_A^{op} = id_A$
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op-comp	$(A \times B)^{op} = B \times A$
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op-vuoto	$\emptyset_{A,B}^{op} = \emptyset_{B,A}$
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distributività	$(R; S)^{op} = S^{op}; R^{op}$
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$$(R \cup S)^{op} = R^{op} \cup S^{op}$$

$$(R \cap S)^{op} = R^{op} \cap S^{op}$$

$$(\overline{R})^{op} = \overline{(R^{op})}$$