



MORE LOGICAL EQUIVALENCES

LOGIC DICTIONARY

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\vee = or $+$ = and $>$ = implies \sim = negation

EQUIVALENCES

Equivalences are interchangeable expressions.

DeMORGAN'S LAWS

$$\sim (p \vee q) = \sim p + \sim q$$

$$\sim (p + q) = \sim p \vee \sim q$$

EXPORTATION

$$(p + q) > r = p > (q > r)$$

MISCELLANEOUS

$$p > q = \sim p \vee q$$

$$p > q = \sim (p + \sim q)$$

$$[p = q] = [(p > q) + (q > p)]$$

$$\sim (p > q) = p + \sim q$$