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Mr. Spock on Contradictions

LOGIC DICTIONARY

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

CONTRADICTIONS

Contradictions are always false.

$$\sim (p \vee \sim p)$$

It's not the case that today is Monday or today is not Monday.

$$\sim (p \rightarrow p)$$

It's not the case that if today is Monday, then today is Monday.

$$\sim (p + p)$$

It's not the case that today is Monday, and today is Monday.

$$\sim (p + \sim p)$$

It's not the case that today is both Monday and not Monday.

$$\sim [p \rightarrow (p \vee q)]$$

It's not the case that if today is Monday, then either today is Monday or today is some other day.