24 August 2021 10:04

A-B = TAVB

Domination law

 $(\mathbf{B})[\neg p \wedge (p \vee q)] \rightarrow q$

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7 \nmid h \nmid h \\
 \end{bmatrix} \vee (7 \nmid h \land 9) \end{bmatrix} \rightarrow 9$$

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F \vee (7 \nmid h \land 9) \end{bmatrix} \rightarrow 9$$

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7 \mid h \land 9 \\$$

By Dubributive (aw 7(7))= b

By Negation law

Identity law

By dy' of condutional staderest

By De-Morgan's law + Double

Negation

Associative law

Negation law

Negation law

(C) $[(p \lor q) \land (p \to r) \land (q \to r)] \to r$

(FV(ANB) | → >

Sheffer stroke operator

p NAND q

It is denoted as $p \mid q$

Nand operator is false when both b and q have true truth values, otherwise true

Peirce arrow operator

p NOR q

It is denoted as n = a

It is denoted as $p \downarrow q$

Nor operator is true when both p and q are false, otherwise False.

Q9. Show that $p \downarrow q$ is logically equivalent to $\neg (p \lor q)$.

Precedence of Logical Operator

 $\neg, \land, \lor, \rightarrow, \longleftarrow$

Logical Equivalences involving Conditional and Biconditional statements

(4)
$$pnq \equiv 7(p\rightarrow79)$$

(b)
$$b \leftrightarrow q \equiv (b \rightarrow q) \wedge (q \rightarrow b)$$