

IJ		(T)
T	F	F
E	T	F
F	F	F



p: Ram is Healthy 9: He has blue Eyes.

prof: Ram is Health and has blue Eyes.

Let p and q be propositions. The *disjunction* of p and q, denoted by $p \vee q$, is the proposition "p or q." The disjunction $p \vee q$ is false when both p and q are false and is true otherwise.

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T	T	T
T	F	T
F	T	T
P	F	

In Disjunction If atleast one is True then Result is True

Set

Complement (-)

Intersection (And)

Union (OR) U

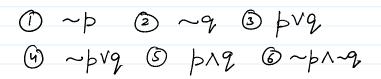
Logor
Negation ~
Conjunction (And) \(\)
Disjunction (OR) \(\)

What is the negation of each of these propositions?

- a) Mei has an MP3 player.
- b) There is no pollution in New Jersey.
- c) 2+1=3.
- d) The summer in Maine is hot and sunny.

2+1 + 3

Let p and q be the propositions "The election is decided" and "The votes have been counted," respectively. Express each of these compound propositions as an English sentence.



P: The Electron is decided

9: The Votes have been Counted.