

Math

well formed formula (wff)

variable, connective, parenthesis

How to construct a formula??

- If P is a well formed formula
then $\neg P$ is also well form
formula.

if P, Q is a well performed
formula

then

$P \vee Q, P \wedge Q, P \rightarrow Q$

$P \Rightarrow Q$ is also

well performed formulae

Tautologies;

This formula is true for
all every possible for assigned
variables that is called
tautologies;

and then opposite known
as contradiction.

$$2^{30} = (2^{10})^3 = (1024)^3$$

$$\text{let } 1 \text{ — } 1 \text{ ms}$$

$$(1024)^3 \text{ — } 2^{30} \text{ ms} < c$$

$$= \frac{2^{30} \text{ sec}}{1000}$$

$$= \frac{2^{30} \text{ yr}}{1000 \times 60 \times 60 \times 24 \times 365}$$

$P \vee \neg P$ will always be true.

Rules of Substitution;

$$B: P \rightarrow (\neg \wedge P)$$

$$(R \Leftarrow S) \rightarrow (\neg \wedge P)$$

$$(R \Rightarrow S) \rightarrow (\neg \wedge (R \Leftarrow S))$$

Human values

Need for values;

- Correct identification of power aspiration.
- Understanding universal human values to fulfill our aspiration in continuity.
- Complementarity of value of science.
- Evaluation of our beliefs.
- Technology and human values.

