

I'm not robot!

theory is a branch of mathematics. Therefore, it is natural that logical language symbols are used to describe sets. In this section, we will look at the basic logical symbols and ways of defining sets. Propositional Logic A proposition is a declarative statement which is either true or false. If a proposition is true, then we say it has a truth value of true. Respectively, if a proposition is false, its truth value is false. So, for example, the following statements have a truth value of true: The Earth revolves around the Sun:  $(10 + 3 = 13)$  If  $(x)$  is an even integer, then  $(x^2)$  is also even. Examples of false propositions: An electron is heavier than a proton:  $(1 + 2 > 3)$   $(6)$  is a prime number. Not all sentences are propositions:  $(x \text{ is } 5)$  (This may be true or false depending on  $(x)$ ) Is it raining? (This is a question, not a declarative sentence) Mondrian paintings are too abstract. (What is abstract and too abstract?) To represent propositions, we denote them by letters. The most common letters are  $(p, q, r, s, v)$ . Using logical operators or connectives, we can build compound propositions. Logical Operators and Truth Tables Let  $(p)$  and  $(q)$  be two propositions. Each of these statements can take two values - true  $(T)$  and false  $(F)$ . So there are  $(4)$  pairs of input values:  $(T, T)$ ,  $(T, F)$ ,  $(F, T)$ , and  $(F, F)$ . Suppose that a new proposition  $(r)$  is composed of  $(p)$  and  $(q)$ . The truth values of the proposition  $(r)$  can take different values  $(T)$  or  $(F)$  for each pair of input values. Figure 1. There are total  $(2^2 = 4)$  possible output combinations (truth functions) for  $(2)$  binary input variables. Each of these combinations is represented by a certain logical operator. Further we'll look at the most important operators. Negation Negation is a unary logical operator. If  $(p)$  is a proposition, then the negation of  $(p)$  is called not  $(p)$  and is denoted by  $(\neg p)$ . To represent the meaning of a logical expression, it is convenient to use a truth table. Each row of the table contains one possible configuration of the input variables and truth values of the output proposition(s). In case of the negation operator, the truth value is very simple: As you can see, the logical negation operator reverses the truth value of the input proposition. Example 1:  $(p)$  A trapezoid is a quadrilateral (true)  $(\neg p)$  A trapezoid is not a quadrilateral (false) Example 2:  $(p \vee q)$  is a prime number (true)  $(\neg(p \vee q))$  is not a prime number (false) Example 3:  $(p \wedge q)$  is a prime number (true)  $(\neg(p \wedge q))$  is not a prime number (false) Example 4:  $(p \rightarrow q)$  is a prime number (true)  $(\neg(p \rightarrow q))$  is not a prime number (false) Example 5:  $(p \leftrightarrow q)$  is a prime number (true)  $(\neg(p \leftrightarrow q))$  is not a prime number (false) Example 6:  $(p \leftrightarrow q)$  is a prime number (true)  $(\neg(p \leftrightarrow q))$  is not a prime number (false) Example 7:  $(p \leftrightarrow q)$  is a prime number (true)  $(\neg(p \leftrightarrow q))$  is not a prime number (false) Example 8:  $(p \leftrightarrow q)$  is a prime number (true)  $(\neg(p \leftrightarrow q))$  is not a prime number (false) Example 9:  $(p \leftrightarrow q)$  is a prime number (true)  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