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Math 347 Worksheet: Logical statements A.J. Hildebrand Worksheet: Logical statements Solutions About this worksheet The problems in this set are intended to hone your skills in working with logical statements, translating English phrases into logical notation and vice versa, negating logical statements using the rules of negation, and interpreting complex logical statements.

*Worksheet Logical Statements Solutions*  
Worksheet Logical Statements Solutions Logic Worksheet 2 - Basic operations Remember: Logic Sets  $x \in P$  means  $x$  is a member of  $P$  ( $x$  is in  $P$ )  $\neg p$  means not  $p$   $P^c$  means the complement of  $P$   $p \cup q$  means  $p$  or  $q$   $P \cap Q$  means the union of  $P$  and  $Q$  "if-else-if" and Conditional Logic 4.

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Worksheet 2 - Basic operations Remember:  
Logic Sets  $x \in P$  means  $x$  is a member of  $P$  ( $x$  is in  $P$ )  $\neg p$  means not  $p$   $P^c$  means the complement of  $P$   $p \cup q$  means  $p$  or  $q$   $P \cap Q$  means the union of  $P$  and  $Q$

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Download File PDF Worksheet Logical Statements Solutions Worksheet Logical Statements Solutions If  $p, q$  are statements, their disjunction is the statement " $p$  or  $q$ ." It is denoted:  $p \vee q$ . For example, let  $p$  be the statement "Today is Tuesday" and let  $q$  be the statement " $1 + 1 = 2$ ." In that case,  $p \vee q$  is the statement "Today is Tuesday or  $1 + 1 = 2$ ."

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Get Free Worksheet Logical Statements Solutions Logic and Conditional Statements Predicate Logic •Example 2: •Statements such as " $x$  is a perfect square" are not propositions •The truth value depends on the value of  $x$  •I.e., the

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1, Statements and quantifiers, Basic ...

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Solution. 1.  $\neg A$  2.  $A \wedge B$  3.  $A \rightarrow B$  4.  $A \rightarrow (\neg A \wedge B)$   
logically equivalent to  $\neg A \vee B$  5.  $(A \wedge B) \rightarrow (A \wedge B)$   
logically equivalent to  $A \vee \neg B$ ] Exercise 2.14.  
Angelo, Bruno and Carlo are three students that took the Logic exam. Let's consider a propositional language where  $A$ ="Aldo passed the exam",  $B$ ="Bruno passed the exam",  $C$ ="Carlo passed the exam".

## *MATHEMATICAL LOGIC EXERCISES*

Analyze the circuit, determining all output logic states for given input conditions. Carefully measure those logic states, to verify the accuracy of your analysis. If there are any errors, carefully check your circuit's construction against the diagram, then carefully re-analyze the circuit and re-measure.

## *Boolean Algebra Worksheet - Digital Circuits*

In effect, the table indicates that the universally quantified statement is true provided that the truth set of the predicate equals the universal set, and the existentially quantified statement is true provided that the truth set of the predicate contains at least one element. Each of the following sentences is a statement or an open sentence.

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## *LibreTexts*

Every statement has a truth value, namely true (denoted by T) or false (denoted by F). We often use  $p$ ,  $q$  and  $r$  to denote statements, or perhaps  $p_1; p_2; \dots; p_n$  if there are several statements involved. For example, we might write  $p$ : One plus one equals two.  $q$ : One plus one equals three.

## *AN INTRODUCTION TO LOGIC and PROOF TECHNIQUES*

Python Exercises, Practice, Solution: Python is a widely used high-level, general-purpose, interpreted, dynamic programming language. Its design philosophy emphasizes code readability, and its syntax allows programmers to express concepts in fewer lines of code than possible in languages such as C++ or Java.

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work, Geometry work using logical reasoning, Logical fallacies 1, Unit 6 math 116 logic, Grade 6 logical reasoning, Orkbook.

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Exercise Sheet 1: Propositional Logic 1. Let

$p$  stand for the proposition "I bought a lottery ticket" and  $q$  for "I won the jackpot".

Express the following as natural English

sentences: (a)  $\neg p$  (b)  $p \vee q$  (c)  $p \wedge q$  (d)  $p \Rightarrow q$

(e)  $\neg p \Rightarrow \neg q$  (f)  $\neg p \vee (p \wedge q)$  2. Formalise the following in terms of atomic propositions  $r$ ,  $b$ , and  $w$ , first making clear

*A Exercises Exercise Sheet 1: Propositional Logic*

Proving Conditional Statements:  $p \rightarrow q$  Direct

Proof: Assume that  $p$  is true. Use rules of inference, axioms, and logical equivalences to show that  $q$  must also be true. Example:

Give a direct proof of the theorem "If  $n$  is an odd integer, then  $n^2$  is odd." Solution:

Assume that  $n$  is odd. Then  $n = 2k + 1$  for an integer  $k$ . Squaring both sides of the equation, we get:

*The Foundations: Logic and Proofs*

worksheet tab and click on cell D7 Type the TRUE and FALSE entries in the column as shown Click on E7 and type =IF(C7>=\$E\$2, IF(D7=TRUE, (C7-\$E\$2)\*\$E\$3,0),0) Press D7 and double-click on the fill...

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Measure your knowledge of propositions, truth values, and truth tables through our engaging assessments. The quiz is an interactive experience that...

*Quiz & Worksheet - Propositions, Truth Values and Truth ...*

File: LogicPractice.xls Worksheet: Olive Oil Logic - 1 A. =IF(A5<=500,B1\* A5, 500\*B1+(A5-500)\*B2) B. =IF(A6<=500,B1\* A6, 500\*B1+(A6-500)\*B2) C. =IF(A7<=500,B1\* A7, 500\*B1+(A7-500)\*B2) Exercise 5 - Page 11 Building and Using a Nested IF Statement (from the Proficiency Exercises) File: LogicPractice.xls Worksheet: Olive Oil Logic - 2

*Excel Logic Exercises for DecMod*

The format of this command is =IF (Logical test, value if true, value if false). Or in plain English =IF (this is true, then do this, if not do that). Let's walk through a couple of examples. If column A has customer names in it, column B has their balances, and column C shows their credit limit.

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