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Propositional and Predicate Calculus gives students the basis for further study of mathematical logic and the use of formal languages in other subjects. Derek Goldrei is Senior Lecturer and Staff Tutor at the Open University and part-time Lecturer in Mathematics at Mansfield College, Oxford, UK.

### **Propositional and Predicate Calculus A Model of Argument**

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### **Propositional and Predicate Calculus: A Model of Argument**

As we've seen, in classical propositional logic, a model is just a row of a truth table. So, in classical propositional logic, a tautology is a formula that is true on all rows of a truth table; two formulas are equivalent iff they are true on all the same rows of a truth table, and so on.

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where each row represents a truth assignment  $v$  giving particular truth values to each of  $p_1, p_2, \dots, p_n$  and then gives the corresponding value of  $v(\uparrow)$ . As there are  $2^n$  different truth assignments on the  $n$  propositional variables, the table would have  $2^n$  rows.

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Propositional Logic (5A) Arguments 17 Young Won Lim 2/23/17 Validity and Soundness (1) An argument form is valid if and only if whenever the premises are all true, then conclusion is true. An argument is valid if its argument form is valid. An argument is sound if and only if it is valid and all its premises are true.

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1. Categorical vs Propositional Logic. In any standard logic textbook you'll see separate chapters on both propositional logic and categorical logic. Sometimes categorical logic is called "Aristotelian" logic, since the key concepts in this branch of logic were first developed by the Greek philosopher Aristotle.

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