

Logic of Quantified Statements

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3 Multiple Quantifiers

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- Predicates
- Universal Quantifier
- Existential Quantifier
- Universal Conditional Statements
- Universal and Existential Statements
- Implicit Quantification

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- **Universal Conditional Statements**
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- Implicit Quantification

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- **Implicit Quantification**

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2 Predicates and Quantified Statements II

- Negations of Quantified Statements
- Negations of Universal Conditional Statements
- Relation among \forall , \exists , \wedge , and \vee
- Vacuous Truth of Universal Statements
- Variants of Universal Conditional Statements
- Necessary and Sufficient Conditions, Only If

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References

- Epp, Susanna S. (2019). Discrete Mathematics with Applications (5th ed.). Cengage Learning. ISBN: 9781337694193.