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$\begin{aligned} \text{a. } p \vee \sim p &= \text{t} \\ \text{b. } p \wedge \sim p &= \text{c} \end{aligned}$	$\begin{aligned} \text{a. } A \cup A' &= U \\ \text{b. } A \cap A' &= \emptyset \end{aligned}$
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$\begin{aligned} \text{a. } p \vee \text{t} &= \text{t} \\ \text{b. } p \wedge \text{c} &= \text{c} \end{aligned}$	$\begin{aligned} \text{a. } A \cup U &= U \\ \text{b. } A \cap \emptyset &= \emptyset \end{aligned}$
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$\begin{aligned} \text{a. } p \vee (p \wedge q) &= p \\ \text{b. } p \wedge (p \vee q) &= p \end{aligned}$	$\begin{aligned} \text{a. } A \cup (A \cap B) &= A \\ \text{b. } A \cap (A \cup B) &= A \end{aligned}$
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Sets And Boolean Algebra

Steven Givant, Paul Halmos



Sets And Boolean Algebra:

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Lattices and Ordered Sets Steven Roman, 2008-12-15 This book is intended to be a thorough introduction to the subject of order and lattices with an emphasis on the latter It can be used for a course at the graduate or advanced undergraduate level or for independent study Prerequisites are kept to a minimum but an introductory course in abstract algebra is highly recommended since many of the examples are drawn from this area This is a book on pure mathematics I do not discuss the applications of lattice theory to physics computer science or other disciplines Lattice theory began in the early 1890s when Richard Dedekind wanted to know the answer to the following question Given three subgroups E , F and G of an abelian group K what is the largest number of distinct subgroups that can be formed using these subgroups and the operations of intersection and sum join as in $E \cap F$, $E \cap F \cap G$, $E \cap F \cap G$ and so on In lattice theoretic terms this is the number of elements in the relatively free modular lattice on three generators Dedekind 15 answered this question the answer is 15 and wrote two papers on the subject of lattice theory but then the subject lay relatively dormant until Garrett Birkhoff Oystein Ore and others picked it up in the 1930s Since then many noted mathematicians have contributed to the subject including Garrett Birkhoff Richard Dedekind Israel Gelfand George Gr tzer Aleksandr Kurosh Anatoly Malcev Oystein Ore Gian Carlo Rota Alfred Tarski and Johnny von Neumann

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