

Topics in Algebra solution

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Problems in Section 3.1-3.2.

1. If $a, b, c, d \in R$, evaluate $(a + b)(c + d)$.

Solution. Observe that

$$(a + b)(c + d) = a(c + d) + b(c + d) = ac + ad + bc + bd.$$

□

2. Prove that if $a, b \in R$, then $(a + b)^2 = a^2 + ab + ba + b^2$, where by x^2 we mean xx .

Proof. Observe that

$$(a + b)^2 = (a + b)(a + b) = a(a + b) + b(a + b) = a^2 + ab + ba + b^2.$$

□

3. Find the form of the binomial theorem in a general ring; in other words, find an expression for $(a + b)^n$, where n is a positive integer.

Solution. We define the notion of word by arbitrary products of a and b (with its order kept in consideration). Let $C_k(a, b)$ an equivalence class of words, with k a 's and $n - k$ b 's in the word of length n . It is clear that for each $C_k(a, b)$, its size is $\binom{n}{k}$. Consequently,

$$(a + b)^n = \sum_{k=0}^n \left(\sum_{x \in C_k(a, b)} x \right)$$

is one of the form of binomial expansion in a general ring.

□

4. If every $x \in R$ satisfies $x^2 = x$, prove that R must be commutative.(A ring in which $x^2 = x$ for all elements is called a Boolean ring.

Herstein Topics In Algebra Solutions Chapter 3

Gaëtan Kerschen



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