Modern Algebra

CARTESIAN PRODUCT

Let A and B be two sets. Then
$$A \times B = \{(a, b) : a \in A, b \in B\}$$
is called Cartesian product of A and B.

If cardinality of A and B is given by
$$|A| = m, |B| = n$$

Then $\qquad |A \times B| = mn$, where A, B are non empty set.

(i) $A \times B = \{(a, b) : a \in A, b \in B\}$
implies $\qquad B \times A = \{(b, a) : b \in B, a \in A\}$
implies $\qquad A \times B \neq B \times A$
(ii) $A \times B = B \times A \Leftrightarrow A = B$
For, if $\qquad A \times B = B \times A$
Let $\qquad (a, b) \in A \times B$
implies $\qquad (b, a) \in B \times A$
implies $a, b \in A$ and $a, b \in B$
implies $\qquad A = B$

Example 1: If cardinality $|A \cap B| = r$ then find $|(A \times B) \cap (B \times A)|$

Solution: Let $A \cap B = D$
then $D \times D \subseteq A \times B$ and $D \times D \subseteq B \times A$
implies $\qquad |D \times D| = r \times r = r^2$

Example 2: Let $A = \{a, b, c\}$ and $B = \{a, b, d\}$ then find $|(A \times B) \cap (B \times A)|$.

Solution: we have
$$A \times B = (a, a) (a, b) (a, d) (b, a)$$
$$(b, b) (b, d) (c, a) (c, b) (c, d)$$
and $\qquad B \times A = (a, a) (a, b) (a, c) (b, a)$
$(b, b) (b, c) (d, a) (d, b) (d, c)$

Let $A \cap B = |D| = 2$ and
$|D \times D| = 2 \times 2 = 4$ implies $|A \times B \cap B \times A| = 4$.

RELATIONS

A relation from set A to B is a subset of $A \times B$ and relation from set B to A is subset of $B \times A$. i.e. relation has a direction $A \xrightarrow{\text{to}} B$ or $B \xrightarrow{\text{to}} A$

Let $\qquad A = \{a, b\}$ and $B = \{1, 2\}$, then
$$A \times B = \{(a, 1) (a, 2) (b, 1) (b, 2)\}$$
here every subset of $A \times B$ is a relation from A to B i.e.,

$A \xrightarrow{\text{to}} B$

and $\qquad B \times A = \{(1, a) (1, b) (2, a) (2, b)\}$
here every subset of $B \times A$ is a relation from B to A i.e.

$B \xrightarrow{\text{to}} A$.

If $\qquad |A| = m$ and $|B| = n$ where A, $B \neq \phi$
then $\qquad |A \times B| = mn$
and total number of relation from A to $B = 2^{mn}$
$= 2^{|A| \times |B|}$

Remark: ϕ is subset of $A \times B$ [or $B \times A$] implies ϕ is relation from A to B [or B to A].

Relation on a set: The relation on set A is subset of $A \times A$. If R is subset of $A \times A$ i.e. $R \subseteq A \times A$ implies, R is relation on A
i.e. if $a, b \in A$ then aR_b if $(a, b) \in R$

For example Let $A = \{a, b, c\}$ then
$$A \times A = \{a, b, c\} \times \{a, b, c\}$$
$= \{(a, a) (a, b) (a, c) (b, a) (b, b) (b, c) (c, a) (c, b) (c, c)\}$
then every subset of $A \times A$ is relation on set A.

Modern Algebra

John R. Durbin

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Advanced Modern Algebra Joseph J. Rotman,2010-08-11 This book is designed as a text for the first year of graduate algebra but it can also serve as a reference since it contains more advanced topics as well This second edition has a different organization than the first It begins with a discussion of the cubic and quartic equations which leads into permutations group theory and Galois theory for finite extensions infinite Galois theory is discussed later in the book The study of groups continues with finite abelian groups finitely generated groups are discussed later in the context of module theory Sylow theorems simplicity of projective unimodular groups free groups and presentations and the Nielsen Schreier theorem subgroups of free groups are free The study of commutative rings continues with prime and maximal ideals unique factorization noetherian rings Zorn s lemma and applications varieties and Gr obner bases Next noncommutative rings and modules are discussed treating tensor product projective injective and flat modules categories functors and natural transformations categorical constructions including direct and inverse limits and adjoint functors Then follow group representations Wedderburn Artin theorems character theory theorems of Burnside and Frobenius division rings Brauer groups and abelian categories Advanced linear algebra treats canonical forms for matrices and the structure of modules over PIDs followed by multilinear algebra Homology is introduced first for simplicial complexes then as derived functors with applications to Ext Tor and cohomology of groups crossed products and an introduction to algebraic K theory Finally the author treats localization Dedekind rings and algebraic number theory and homological dimensions The book ends with the proof that regular local rings have unique factorization Publisher s description   Modern Algebra and the Rise of Mathematical Structures Leo Corry,2012-12-06 The book describes two stages in the historical development of the notion of mathematical structures first it traces its rise in the context of algebra from the mid nineteenth century to its consolidation by 1930 and then it considers several attempts to formulate elaborate theories after 1930 aimed at elucidating from a purely mathematical perspective the precise meaning of this idea First published in the series Science Networks Historical Studies Vol 17 1996 In the second rev edition the author has eliminated misprints revised the chapter on Richard Dedekind and updated the bibliographical index   **Elements of Modern Algebra** Linda Gilbert,2008-10-20 ELEMENTS OF MODERN ALGEBRA is intended for an introductory course in abstract algebra taken by Math and Math for Secondary Education

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