(2.2.2) Cardinality

The number of distinct elements in a finite set is called its cardinality.

(2.2.3) Power Set

(2.3) Operations on Sets

(2.3.1) Complement of a set

(2.3.2) Binary Operations on Sets

-Union

-Intersection

-Set Difference

-Symmetric Difference

A \otimes B

{2, 3, 4, 6, 7, 8}

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| 1) (2.1.2) Rules of Inclusion Method  2) Membership Table  3)  4)  5) |  |
|  |  |

U is {1,2,3,4,5,6,7,8,9}

A is {1,2,4,8}                       B is {1,3,6,7}

What is the Complement of B

(a) 3 5 6 7 9

(b) 2 4 5 8 9

(c) 1 2 4 6 9

(d) 1 3 5 9

Correct Answer (b)

What is A union B?

(a) 1 2 3 4 6 7 8

(b) 1 2 3 4 5 7 8

(c) 1 3 4 5 6 7 9

(d) 1 2 3 5 6 8 9

Correct Answer (a)

( A u B)'

(a) 1

(b) 1,2,3,4,6,7,8

(c) 1 2 4 5 8 9

(d) 5 9

Correct Answer (d)