## **UNION**

A B	(A-B, C-D)
A B C D	(A-D)
A B	(A-D)
A B C D	(A-B) or (A-D) or (C-B) or (C-D)
C D	(C-B)
C D A B	(C-B)
C D A B	(C-D, A-B)
A B	(A-B) or (A-D)
A B	(A-B)
A B C D	(A-B) or (C-B)
A B C D	(A-D) or (C-D)
C D	(C-D)
C D	(C-B) or (C-D)

## **INTERSECTION**

A B	()
A B C D	()
A B	(C-B)
A B C D	(A-B) or (A-D) or (C-B) or (C-D)
C D	(A-D)
C D A B	()
C D A B	()
A B	(C-B) or (C-D)
A B	(C-D)
A B C D	(A-D) or (C-D)
A B C D	(A-B) or (C-B)
C D	(A-B)
C D	(A-B) or (A-D)

## **DIFFERENCE**

(A B)	(A-B)
A B C D	(A-B)
A B	(A-C)
A B C D	()
C D	(D-B)
C D A B	(A-B)
C D A B	(A-B)
A B	(A-C)
A B	(A-C, D-B)
A B	(D-B)
A B	()
(C D	()
A B	()

## **SYMMETRIC DIFFERENCE**

A B	(A-B, C-D)
A B C D	(A-D)
A B	(A-C, B-D)
A B C D	()
C D	(C-A, D-B)
C D A B	(C-B)
C D A B	(C-D, A-B)
A B	(A-C)
A B	(A-C, D-B)
A B	(D-B)
A B	(B-D)
C D	(C-A, B-D)
A B	(C-A)