

Date: 9th April 2021

Day: Friday

Mathematics

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Ex#1a(pg17)

6. If $U = \{0, 1, 2, \dots, 8\}$,
 $A = \{0, 1, 2, 3\}$,
 $B = \{2, 3, 4, 5, 6\}$,
 $C = \{5, 6, 7, 8\}$,
 $D = \{2, 4, 6, 8\}$,

find:

(i) $A \cup B$	(v) $B \cap C$	(ix) C'	(xiii) $B \vee A$
(ii) $B \cup C$	(vi) $C \cap D$	(x) D'	(xiv) $D \vee A$
(iii) $C \cup D$	(vii) A'	(xi) $A \setminus B$	
(iv) $A \cap B$	(viii) B'	(xii) $C \setminus D$	

Continued on next page

Q#6

(vii) A'

Solution

$$A' = U - A$$

$$U - A = \{0, 1, 2, 3, 4, 5, 6, 7, 8\} - \{0, 1, 2, 3\}$$

$$A' = \{4, 5, 6, 7, 8\}$$

xi) $A \setminus B$

Solution:

$$A \setminus B = A - B$$

$$A - B = \{0, 1, 2, 3\} - \{2, 3, 4, 5, 6\}$$

$$A \setminus B = \{0, 1\}$$

7. If $U = \{0, 1, 2, 3, \dots, 9\}$,
 $A = \{0, 2, 4, 6, 8\}$,
 $B = \{1, 3, 5, 7, 9\}$,
 $C = \{1, 2, 3, 8\}$,
 $D = \{4, 5, 6, 7\}$,

find:

(i) $A \cup B$	(iv) $C \cup D$	(vii) C'	(x) $D \cap C$
(ii) $A \cup D$	(v) A'	(viii) D'	
(iii) $B \cup C$	(vi) B'	(ix) $B \vee A$	

H.W

Ex#1a

Q#6(viii-xiv)

Q#7(i,iii,vii,viii,ix,x)