

## S-2 solutions

Page No. Page No.

Subsups of A = of  $P(A) = \{\phi\}$ 

har n=1

no of Subsets of P(A) = 2'= 2

Subsept P(A) = 144, 4

P(P(A)) = { 444, 44

hay n=2

no. g Subsect of P(P(A)) = 2= 4

5454 y P(P(A))) = 134/4, 544, {44,44, \$

P(P(P(A))) = { { {4444, 44, 44, 44, 44, 44

Ons 4 1 1,2,3, \$4,5,6,7,8,9,104

A= { 1,2,3,54, B= { 2,4,6,74, C= { 2,3,4,84

(1) (AUB) NC = {1,2,3,4,5,6,74 1 52,3,4,8} = {2,3,4}

(2) (AMB) UC = {24 U { 213, 4, 8} = {2,3,4,8}

(3) (A-B) = {1,3,5} = {2,4,6,7,8,9,104

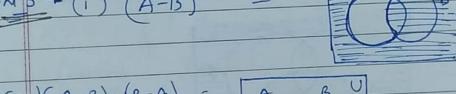
(y) (B-C) = { 6,74 = { 1,2,3,4,5,8,9,104

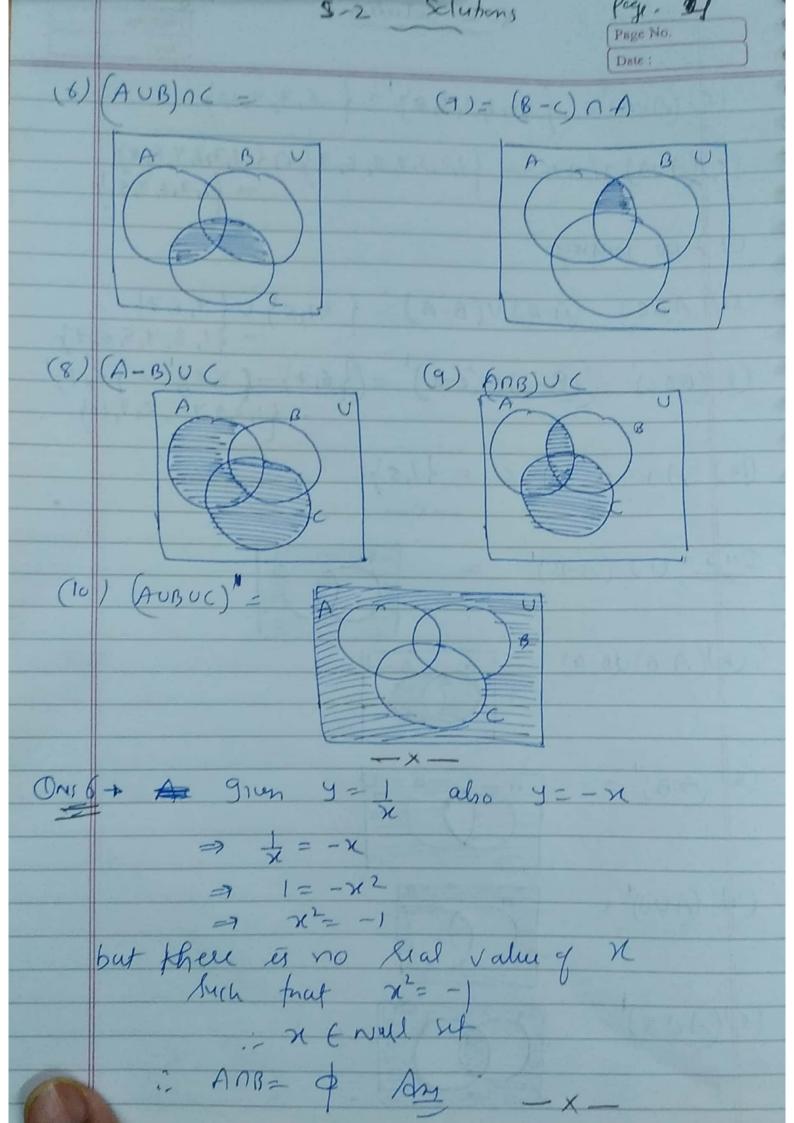
Date :

(7) Do yoursey

(8) 
$$AOB = (A-B) \cup (B-A) = \begin{cases} 3,1,5 \end{cases} \cup \begin{cases} 4,6,7 \end{cases} = \begin{cases} 1,3,4,5,6,7 \end{cases}$$

$$(9)(BDC)' = (B-C)U(C-B)' = (6,7)' = (6,7)' = (6,7)' = (6,7)' = (6,7)' = (6,7)'$$





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Ox (7) A= { 2,3,5,64 hour n= 9 no of subsuf = 2 = 16 & and itself A are not proper subsets - number of porper subsets = 16-2 = 14 Any  $0x \cdot 8 + U = \{1,2,3,4,5,6,7,8,9\}$   $A = \{2,4,6,8\}$   $B = \{2,3,5,9\}$ (i) AUB =  $\begin{cases} 2(3, 4, 5, 6, 8, 9) \\ (AUB)^{1} = \begin{cases} 1, 7, 10 \end{cases}$ A'= { 1,3,5,7,9,10}, B'= { 1,4,6,7,8,104 A'OB' = 21,7,104 cleasly (AUB)' = A'OB' Any (ii) Do youssey Ong + A -> Set of all friengles with atteast one argue is object from 60° A' -> Set ef frat frærgles uhære no argle is delf elent from 60° that is all arges are 60 : A > Set of all equilateral triangles Hay