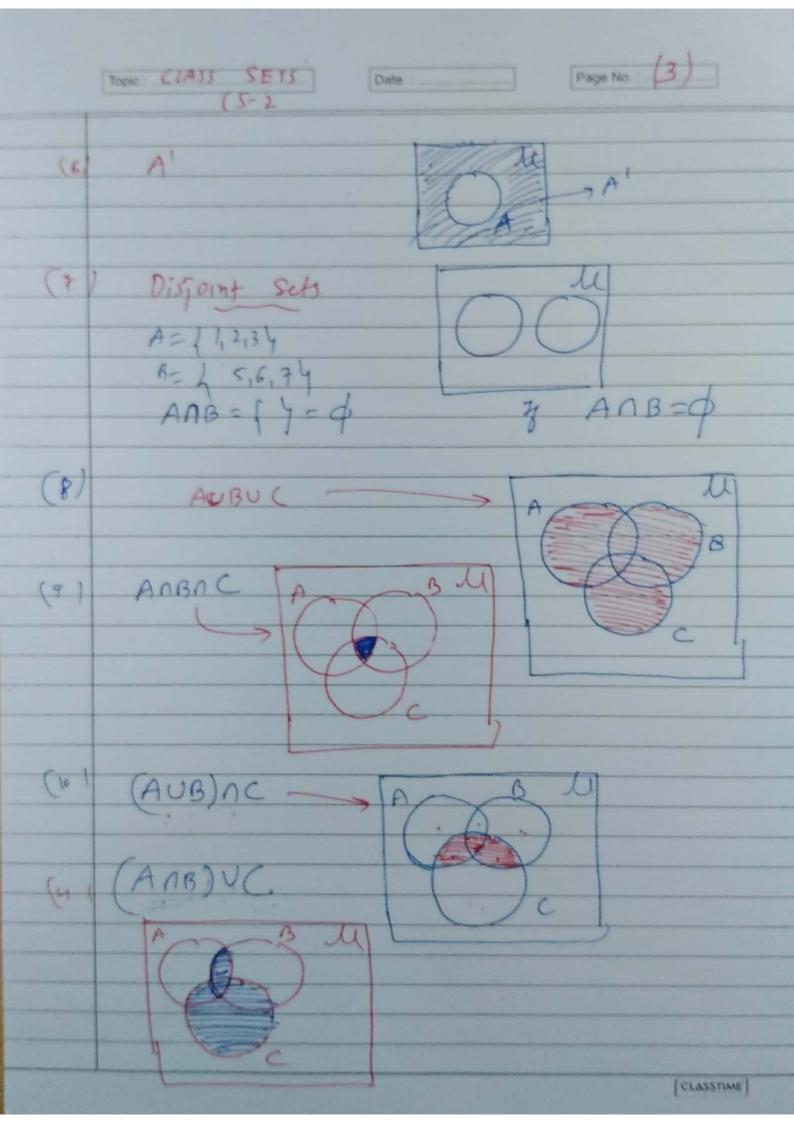
1. In al Bilkin & HEIKIN!

| | Topic: Page No.: |
|-------|---|
| | ULTIMATE MATHEMATICS |
| | MATHS: BY AJAY MITTAL (9891067390) |
| | CHAPTER: SETS CLASS No. 2 (5-2 |
| | Operation on sets |
| (,) | Union g sets: Symbol: U |
| | $A = \begin{cases} 1,2,3 \\ 9 \end{cases}$ $B = \begin{cases} 3,4,5,2 \\ 9 \end{cases}$ |
| | AUB = { 1,2,3,4,54 |
| (2) | Intersection of how sets: 1 (common) |
| | $A \cap B = \left\{2,3\right\}$ |
| (3) | Differ to Difference of two seks |
| | A-B = 119 |
| | B-A= { 4,54 |
| (4) | Symmetric Difference of two sets: Symbol) |
| | $A \triangle B = (A-B) \cup (B-A)$ |
| | ADB = 11,4,54 |
| 8 | Univusal set: Man) |
| Per l | |
| | e.9 M= { 1,2,3,4,1,6,7,8,9,104 |
| | |

CLASS : S-2 Page No. : Date. : (opposite) Complement of a set: Snum U= 1,2,3, 4,5,6,7,84 A= { 2,3,5,64 A = { 1, 4, 7, 8 4 AUA' = { 1, 2, 3, 5, 6, 7, 4, 84 = M Venn diagram AUB (1) ANB = A-B B-A U ADB ADB=(A-B) 4(B-A)

CLASSTIME"



A= { 1, 2,34, B= { 1, 2,3, 4,54 ACB; B&A Nog Subsuls in g set A = 2" here n=3 $1/2 = 2^2 = 8$ Subsels = 114, 124, 134, 11,24, 11,34, 12,34, 11,2,34, 4 Impreses subsets: 4, 11,2,34 = 2 proper Subsels 114, ---- {2,34 = 6 Noy proper Subsety = 2 - 2 Superset: Baa Superset of A ONU Two finite Sets have in and in elements. The form number of subsets of the first set is 56 more than the total number of subsets of the Second set. Find the values of men May Subset of Ist Set = 2 m $Acc-tv an g^m-g^n=56$ comparing $2^{m}-2^{n}=[6y-8]$ som m=6, n=3) $2^{m}-2^{n}=2^{6}-2^{3}$ [CLASSTIME]

ONIZ A= { 1, 129, 39 2 # A WRIKE P(A) 429 EA P(A)= } {!4, {{247, {34, {1,34, {1,34, {124,34, { 11, 124, 34 ON. 3 7 A= 4 Solh r here nor of elements in set A. n=0. nod subset of set A = 2" = 2° = 1 P(A) = { \$ \$ } noch element in P(A) - 1 1 noy subuh of P/A/ = 2' = 2. - Subsup of P/A) = for, of P(P(A)) = { { 4 } , 4 }

- ULTIMATE MATHEMATICS +

Topic: SETS CLASS: 2Date: Page No.: (1) WORKSHEET NO: 2 (5-2) One 1 + Two finite sets have p and 2 elements. The number of subsets of the first set is 112 make than that of the second set. Find the values of p and 2 OM-2 + 7 B= {2, 134, 54 write P(B) ONU 3 - γ A = ϕ WRIK P(A), P(P(A)), P(P(P(A))) ON 4 = 7 M= { 1,2,3,4,5,6,7,8,9,104 ond A= 4 1,2,3, 54. B= { 2,4,6,74; C= { 2,3,4,8} Find (1) (AUB) NC (2) (AB)UC $\begin{array}{c} (3) \quad (A-B)' \\ (4) \quad (B-C)' \end{array}$ (S) (AUC)' (6) (AUB) n (AUC) (7) (ANB) U (BNC) (8) A DB (9) (BDC) Draw vem diagram of (1) (A-B) (2) (A-B) U(B-A) (CLASSTIME)

| | Topic: Date: Page No.: |
|--------|---|
| (3) | (Ang)' |
| (4) | |
| | |
| (5) | |
| (6) | (AUB) nc |
| (7) | (B-C) NA |
| (8) | |
| | (Ang)uc |
| 1 1765 |) (AUBUC)' |
| | (10100) |
| O17 6 | > y Sets A and B are defined as |
| | |
| | $A = \{(x,y): y = \frac{1}{x}; x \neq 0, x \in \mathbb{R}\}$ |
| | $B = \{ (n, y): Y = -x, x \in R \}$, then |
| (A) | ANB= A (3) ANB=B (1) ANB= 4 (0) AUB= A |
| 3 - | |
| 04, 7 | y A = { 2,3,5,64 write the number g proper subsets. |
| | g people subsets. |
| On. 8 | 7 U=11,2,3,4,5,6,7,8,94 A=42,4,6,84 |
| | B= {2,3,5,9} B= {2,3,5,9} |
| | |
| | Vaily that (i) $(A \cup B)' = A' \cap B'$ $(2) (A \cap B)' = A' \cup B'$ |
| | |
| On 9. | + let Il be the set of all triangles in a plane. |
| | of A is the Set of all triangles with atteast |
| | the let be the set of all triangles en a plane. If A is the Set of all triangles with atteast one angle different from 60°, what is A'? |
| | (CLASSTIME) |