Asighación #2: Epp. Susahha S. 11) $A = \{x \in R \mid 0 < x < 2\}$ $B = \{x \in R \mid 1 < x < 4\}$ $C = \{x \in R \mid 3 \le x < 9\}$ a) AUB = {x(ER 0,<x<4} b) A∩B={x ∈ R | 1 ≤ x ≤ 2} c) AC = {x \in R | x \le 0 \text{ or x > 23} d) AUC = {x ER | 0< x < 2 or 3 < x < 9} e) A MC = Ø MC R = (12 1 3 8) } f) BC = {x ER | x < 1 or x > 4}5 9) A' NB' = EX FR X < 0 or X > 43 WACUBC= {x FR|x<1 or x>2}

$$(A \cap B) = \{x \in R \mid x < 1 \text{ for } x > 23\}$$

$$(A \cup B)^{c} = \{x \in R \mid x \leq 0 \text{ for } x \geq 4\}$$

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i) $(A \cap B)^c = \{x \mid x \in R, x \in (-\infty, -2] \cup [1, \infty)\}$ $j)(AUB)^{c} = \{x | x \in R, x \in (-\infty, -3] \cup [2, \infty)\}$ 19) Let A; = {i, i23 for all integers i=1,2,3,4. a) $A_1UA_2UA_3UA_4 = 1$ {13142,43143143,93144,163={1,2,3,4,9,163 {13N{2,43N{3,93N{4,163=0 c) Are A, Az, Az, and A4 mutually disjoint? Explain They are not because AznAy= {43 = 0

20) Let Bi = {x \in R | 0 \le x \le i3 for all integers A CONTRACTOR CANALY) B, UB2 UB3 UB4 = $\{x \in R \mid 0 \le x \le 1\} \ U \{x \in R \mid 0 \le x \le 2\} \ U \{x \in R \mid 0 \le x \le 4\}$ U(12,3,43=1 A {1,2,3,43} = { X FR | 1) < X < 4} b) $B_1 \cap B_2 \cap B_3 \cap B_4 =$ () Are B, Bz, Bz, and By mutually disjoint? Explain. They are, because they are properly organized.