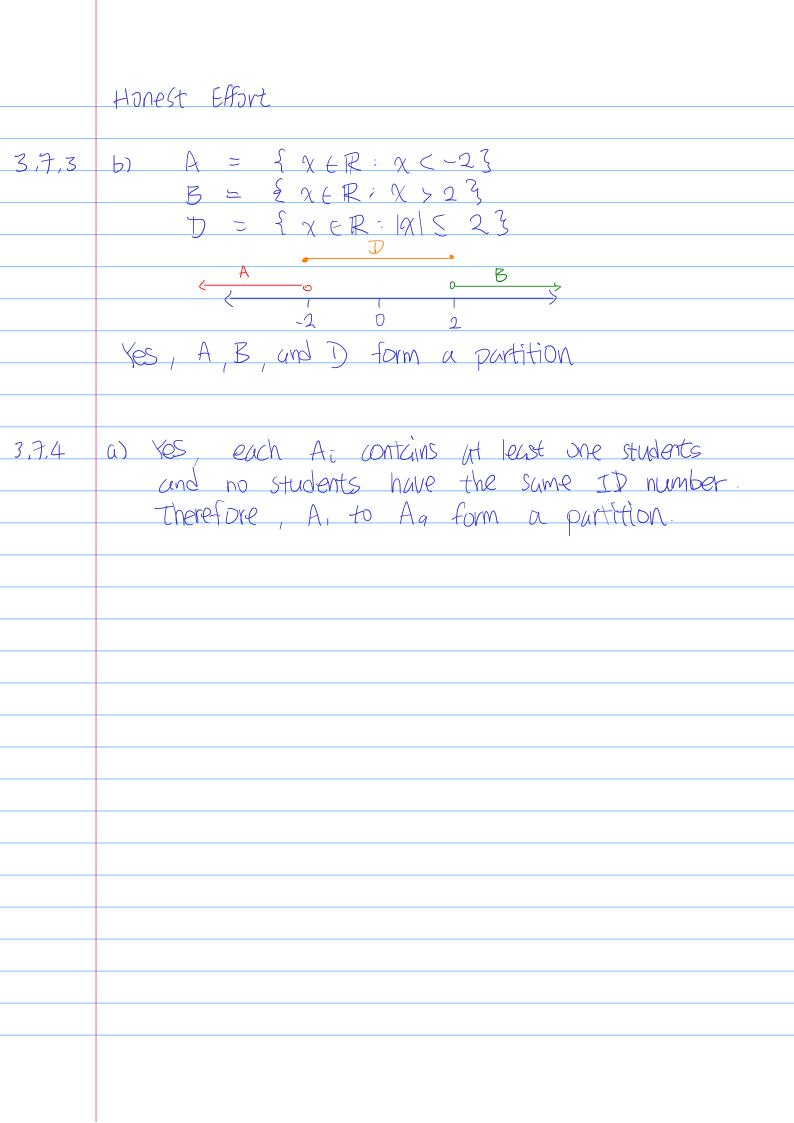
Honest Effort 3.1.2 b) False set A does not has a set with the element 15. d) True. A set is always a subset itself. e) False. B does not contain a empty set. f) True We have infinite amount of integer 3.1.5 a) $A = \{x \in z : -2 \le x \le 2\}$ |A| = 5 c) $C = \{ x \in Z : -3 \leq x \leq q \text{ and } x \text{ is odd } \}$ |c| = 7 3.2.1 d) False . The element 3 is not in & but a set containing the element 3 is in X f) False. {1,23 is not a subset of a but £ £1233 75. j) True, {2,33 is a element in X i) False, 3 is not a domant in X

```
Honest Effort
               P(A) = \{ \theta, \{a3, \{b3, \{a, b3\}\} \}
3,3,4
               P(B) = \{ \beta, \{ b \}, \{ c \}, \{ b, c \} \}
          c) P(A) \cap P(B) = \{\emptyset, \{b\}\}
          d) P(A) \cup P(B) = \{ \emptyset, \{ a \}, \{ b \}, \{ c \}, \{ a, b \}, \{ b, c \} \}
3.4.4 e) AUB = ABB
             AUB = 9 1,2,3,4,-1,-2,-33
             A \oplus B = \{ 1, 2, 3, 4, -1, -2, -33 \}
               True
         h) True, { {033 is a subset of the Power set of C
3, b, 7 = (XB = \{\{ab\}, \{ac\}, \{bb\}, \{bc\}, \{db\}, \{dc\}\}\}
                B \times C = \{\{ba\}, \{bb\}, \{bd\}, \{ca\}, \{cb\}, \{cd\}\}\}
              (CXB) \cap (BXC) = \{\{bb\}\}
         f) AXB = { {ab}, {ac}}
            P(A \times B) = \{ \emptyset, \{ab3, \{ac3, \{abac33\}\}\} \}
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	Honest Effort and Foodback	biven
3,5,2	ω) $(A \cap C) \cup (A \cap C) = C$	
	(ĀnC) V (ANC) (C n Ā) V (ANC) (C n Ā) V (C n A) C n (Ā V A) C n (A V Ā) C n (U)	Start Commutative Iaw Commutative Iaw Distributive Iaw Commutative Iaw Commutative Iaw Identity Iaw
3,7,3	c) $B = \{x + R : x > 1\}$ $D = \{x + R : x < 2\}$ $E = \{x + R : x < -2\}$ $D = \{x + R : x < -2\}$	
	Both D and E contain thefefore, no, 13, D and E	ns -2, ure not pairwise disjoint,