Bot S: {a,b,(,d,e})

a & S

p & S  $5: \frac{5}{2} \times \left[ x \in \mathbb{Z}^{t}, x < 5 \right].$   $\{a,b,d,t\}$   $\{f,a,d,b\}$   $\{A-B\}$   $\{a,b,d,a\}$   $\{a,b,d,a\}$   $\{a,b,d,a\}$ 

Cardinality of Set S: Lenoted by Is no of elements in a set

 $\{1, \alpha, \alpha, b, \infty\}.$ A: ¿a,b,o,h,x,m3 Singleton S: { 9, h, k}

S: { 9, h, k}

A OR B & 20, 5.3}

S = A A B, AAND B. 1 A = [1,6,a,d,f,8] B= { d, 6, 8, 7, 9} §.3 null set C C ( ) c = \$ 26 - Vike Jostball CS./AUB= {1,6,a,d,f,8,7,8} ( ) ( = A 23 - Like Swimming 6 A(B= 2cl, 6,83

C= 2619,83 C S A . \_\_\_\_A

Prove than Set A- Set C age (shashank) = age (Nelson) age (Nelson) < age (Shashank)

$$C \subseteq A = A = C.$$

$$A \subseteq C$$

Let a E SI De Margan Laus Si S S 2 A 18, C Show a E S 2 (AUB) = ACMB [AUBUC] Si S S 2 (a) S1 / S2 b & A (B) a E (AUB) = (A) + |B| + |C| - (A) B| - |B) C| - |A) C| bear be B a & (AUB) b年A, b年B a & A, a & B  $A^{c}$  (BOC)  $S_{1} \subseteq S_{2}$ b # X VR  $a \in A$ ,  $a \in B^{c}$ be(AUB)c A' ((BOK) [AU (BOC)] a E A' (B')

 $A = \{ a_1b_16_14_1(a_1) \times \}$ A-B=AnB B - 2 a, 9, 7, 4, 5 a &B A-B= 3b, 6,4,x3  $a \in B'$ at (An B) B-A= { Z, Y} b e A b & 3' A-B+B-A b &B P ← (V-B) (A-B)(B-A)=¢ (A-B) U(B-A)

 $A - B = A \cap B^{c}$ a EtA-B) 9 5 A 9 & B {b,6,4,x,2,1} a s Bc symmetric as (Ange) (A-B) = (An Bc) 1 A A B = (A-B) U(B-A) = (AUB)-(AMB)

$$(1+1)^{n} = {n \choose 0} + {n \choose 1} + {n \choose 1} \cdot - {n \choose n} \cdot - 2^{n}$$

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