AUTUMN- 22%- TO TOMBETTE MODE STORES 200 21 100

01) o) A set is on unordered conjection of objects. 10 600 ADD ((000) } = 978 coadinality of a set?-

The couldinality of a set is the Total number of unique elements in a set. Examples A = 8, 9, 5, 3, 4, 5, 6 4 + The coarginality of the set A 18 equal to 6 because set A has six elements.

complement of a set? -

The complement of a set A is a set of all those elements of the universal set which do not belong 40 & .oug is geneted pA & ou b, ou & ou

Examples - Let, A = d(1,2,3,4,5). ACIA/IA = U - A = d(1,2,3,4,5)

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(3) certesion products-Let A and B be sets. centerian product of A and B denoted by AXB is defined as- AXB = 2 (and); a $\in A$ and $b \in B$ (AxB) x (cxD) and Ax (Bxc)xD once mot some too out to Britonibuses out + Youth E.S. E. & - A A is equal to 6 becourse set h sup six elanones. - 5 +92 0. 70 +09 mos/gmros 520H-110 hi 192 o 21 A +98 o 70 thoms 19mos 3NT Prove that, (AUB) = A'n B's rinu on to 2 to 2 to many H. Raphonsp. Si pag. U of be > AHH A/18 => { x1x \$ (ANB)} = A (+96 -59/9000X3) => fx1 - (xe (ANB) y. =>{xeAnxeB)} => {xi¬(xeA)v(xeB)} => PAX #AVX #BY =) PXIXEAVXEBÓY => {x1x E A'UB'S => IXIXE (BUB) J [proved]

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ANY subset a is soid to be proper subset of B, if there is at least one element of B which goes not perond to A, it ACB. but A + B. It is maitten

F., D. F. P. C. 1. 1-95. A-B=q'1,5,7,8,154 B-A = & 3,6,104 Tromas = 2,9,11,154

set A = { 1, 5, 2, 5, 7, 8, 9, 11, 154 set 8 = 3,6,10,2,9,119 = 2,3,6,9,10,119 = 2,3,6,10,

(c). 25 ven, U = d 1,2,3,4,5,6,7,8,9,10 / 10,000 10 of bottoned at bow nothtroop ·a) \$ 3,4,54 Bit String = \$ 0011110000

postomos si bro. Dostitroup (b) & 1,3,6,10 y 317 staind = 1010010001

2,3,4,7,8,99 more BNY 56

Bit Staind = 0111001110

((-x)2-) 3C+1- (11) ((Brx) -F = (M)2) xy (1)

10 Lily = too

@ given, v= d 1,2,3,4,5,6,7,8,9,104 (a) f 3,11,5/3

- (a) 1111 of blooms 10 198000 1000 Phase Dollar set = \$1,2,3,4,7,8,2,10} 1-2001. In 27 500 (6) 0101111000 poor 100. 3 = A 3: A of Baalod set = 2,4,5,6,79 far, 8, F, 2, E, & = 8-4 (c) 10000000000 · Set= of 1,10 / tue for since





(b) ? Curen:

((x) = x has an indernot connection C(x,y) = x and y have chatter one the internet. U = All student of the class.

(1) 72(N,y)

(1) 742(1(24))

(1) 742(1(24))

(1) . 42(1(24))

Authumn-22-12/60) "x 6/19/9 not "920019 3/1 (Be phonopolesis) phonophilians resulting a police = There is a treat number of for every near number x, such that ay edul? sonsise notwamos byone (1) ANAN (NSO) V (NCO) 7 (x-9>0) = FOR every near number x and for every treal number y if 230 and 40, then 2-4>0.
This statement says that, for these numbers x and y; if x is positive and x is megative Then The difference between x and y is

Positive.

Positive. 9700 00000 mi 900000 000

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ROWING THEORY SUPERMOVE DAY DONIES Autum-22-2(d), aludon 6/100 260000 ton 600 17 (PV9) 7P1 (PV9) 79





P	9	て	P+9	Pta		7	(P+9)1(P+T)	(p+q) 1 (p+n) + (p+n)	
	T	. 5		T		0		T	
	T	F		F			F		
1	F		+	-	1	1	F	7	
	F	F	f-	·F		1	F	*	
F	+	1	7	7			÷T		
•	1	F	T	1			1	7	
6	F	7	7	T			1	1	
F	F	F	1	T		0	T		

is a toutorest -



(3) b: I pongut a gottala ticket this meek 9: I won the million dollar Jackhot

Of the time to it on election of the one of soll of the to (B) bad is pongyt a nother ticket tyle meek

ON I won the million dollow Jackpot.

OF P + 9

ON I T Dought or Lotters this week this week then I won the million donor Jackpot

The property of the pr

(21900 bono : 1055)

Ans: I wought a JoHard ticket this week and I won the million dollote tock pot

1980/4 EDDHOL O + Ausi It I did not bus a gottons ticket this week then this will not win the million dollare JOCKPO+

did not buy a Jottery ticket this week bought a ticket this week app and.

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$$4(d) \text{ oti}$$

$$f(x) = 3x + 5$$

$$f(x) = 3x + 5$$

$$f(x) = 4(3x + 5)$$

$$= 2 \cdot (3x + 5) + 3$$

$$= 2 \cdot (9x^{2} + 25) + 3$$

$$= 18x^{2} + 50 + 3$$

$$= 18x^{2} + 53$$

$$f(x) = 4(2x^{2} + 3)$$

$$f(x) = 4(2x^{2} + 3)$$

$$f(x) = 6x^{2} + 9 + 5$$

$$= 6x^{2} + 9 + 5$$

$$= 6x^{2} + 14$$