Software Mathematics - HW2

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$$\begin{bmatrix} A & B \\ A & q \end{bmatrix}$$

AnB

c) A

$$(AVB)-(ANB) = A \oplus B$$

$$A$$
 B
 C
 C
 C

if A and B has intersection.

$$A-B$$
 = a

$$A = a + b$$

$$A \cap B = b$$

20, A- (A-B) = AnB

$$\therefore a+b-a=b$$
is true

cose 2

$$A = B$$

$$a$$

if ACB, BSA, A-B=Ø

ANB = A

$$\therefore \alpha - \phi = 0$$
is true

 $\binom{a}{b}$

if A and B are disciont,

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A-B=a

1= 0 1= 0

YUB = Q

 $\cdots \qquad Q-Q=0$

is true

$$a+b-a=b$$

$$b-\phi=$$

$$\begin{bmatrix} -U \\ A \end{bmatrix}$$

a)
$$|\phi| \leq |A n B| \leq |A| \leq |A U B| \leq |U|$$

$$| (a) | (b) = | (a) | (b) = | (b) | (b) = | (b) |$$

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a) fis one to one

b) f is onto function g is not f(a) = 3, f(b) = 4, f(c) = 2, f(d) = 1 g has no inversion

let's assume that of is made up with integer ox, and decimal B.

and y is also made up with integer T and decimal au

 $\lceil 21 \rceil < \beta > 0 \rightarrow \alpha + 1$ $\beta = 0 \rightarrow \alpha$ Taty] - B+w>1 -> A+r+2 B+w=1 -> atr+1

$$Ly = 0 \rightarrow r$$

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$$B = 0 \rightarrow d + r$$

So, there one two ways to satisfy an equation

first, if x and y are all integers. it is true

second, if x and y has decimal part, rouly if the sum of the decimal parts does not exceed 1 and the decimal part of x is not zero.