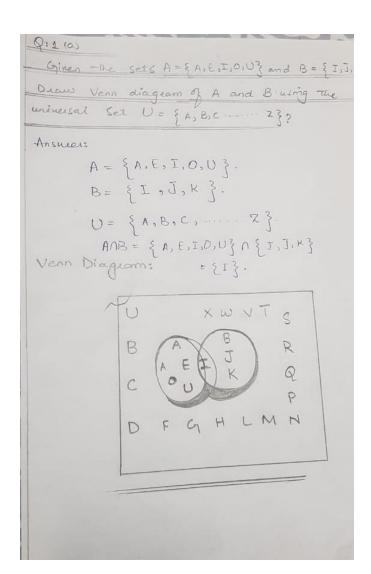
NAME: FAIZA JAVED

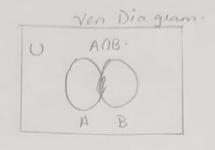
ID: 13646

SUBJECT: BUSSINESS MATHEMATICS

MID EXAM ASSIGNMENT

SUBMITTED TO: SIR TUHEED UR REHMAN





ven Drägren



Do Define with Examples: Li Equal Set: Defination: Before we get into the defination of an equivalent set, we need to frist know what a set is. A Set is a Collection of elements - mat are usually related. they are indicated with brakets { }, we can have a set lonlaining numbers, words or ever Protectes. Here are some examples of sets · { 1, 2, 3, 4, 5}. when a set Contineues on four infinity, the last elements in the set is jollowed by three dots known as an elipsis, which indicates the the number Continues. An example is shown here: { 1,2,3,4,5,6...3. 1. Two sets are called equal if They have exactly the same elements. { vowels in the English alphabet} Examples § a, e, i, 0, 0 }.

In the other hand, the sets {1,3,5} and {1,2,3} are not equal, because they have different elements. This is written as:

{ 1, 3, 5 } = { 1, 2, 3 }.

The oeder in which—the elements are written between the Curly brackets does not matter at all.

Example:

It an element is listed a mare then ones it is only counted once.

For Example: { a, a, b} - { a, b}.

Finite and infinite sets:

All the Sets we have Seen So fai have been finite Sets, meanings - wat we can list all - weir elements.

Here we are two examples:

{ whole numbers between 2000 and 80053 = { 2001, 20023. { 2003, 2004}} { whole numbers between 2000 and 30009 = { 2001, 2002, 2003, 29993.

A set can also be infinite all that matters is that it is well defined there are two examples of infinite sets:

{ even whole numbers } = {0,2,4,6,8,10...}

{ whole numbers greater then 2000}

= {2001, 2001, 2003, 2004....}

Subsets:

Subsets of a Set.

1: Sets of things are often Junther Subdivided For Example, souls are a particular type a bird, so every owl is also a bird. we express this in the language of Sets by Sayings that the set of owls is a Subset of the Set of the birds.

set T if every element of S is an element of T. This is withen as:

SCT (Read This as "S is a subset of

Example 1.

The new Symbol C means is a subset of (Thus (owl) C (birds) because every our is a bird Similarly!

then $A \subseteq \{2,4,6\}B = \{0,1,2,3,4,5,6\}$ then $A \subseteq B$ SCT.

This means that at least ones element of S is not element of T. For example:

(Birds) & (Jlying Creatures).

Dr: what are the four basic rules to solve an equations? Answers -A Generally Rule of Solving equation: Simplify each sides of the equation by removing Parenthesis and lombing like "terms. Use addition and Subtractions to isolate - me variable - leur on one side of the equations. Use multiplication or division to solve for the variables. An equal Non-Zero quantity may divided both sides of an equation

Assurers-

$$= 8x - 8 + 17x - S1 = 16x - 36 + 4$$

$$= u = \frac{1}{4}$$

Answers-

$$1S(x-1)+4(x+3)=2(7+x)$$

Solution:

=
$$1S(x-1)+4(x+3)=2(7+x)$$
.

$$= 15x - 15 + 4x + 12 = 14 + 2x$$

$$= 19x-3 = 14+2x$$

$$= 19x - 3 - 14 - 2x = 0$$

$$= 17x - 17 = 0$$

$$= 17x - 17$$

Q(3) Solve the following equations simutement using elemination method?

(a)
$$7x + 2y = 47 - - 0$$

 $5x - 4y = 1 - - 0$
 $7x + 2y = 47 - - 0$
 $5x - 4y = 1 - - 0$

Solution 3-

$$7x + 2y = 47 - 0$$

 $5x - 4y = 1 - 0$

Muttiply equations "1" and "2'.

$$= 2 (7x + 2y = 47).$$

How add equation 2 and 3.

$$= 5x - 4y' = 1 - 3$$

$$= 14x + 4y' = 94 - 3$$

Divide 19 by both sides:

$$\begin{array}{rcl}
&=& 19x &=& 9S \\
&=& 19x &=& 19S \\
&=& 19x &=& 19x &=& 19x \\
&=& 19x &=& 19x &=&$$

thank you