Past, present and future

Prasenjit Jana

prasenjit_jana1@yahoo.co.in

ABSTRACT

Uses of different mathematical forms to find out the relationship between our past to present and present to future can be possible. We are in a finite set taken as the present set which is linked with the past infinite set. Again the present finite set is related with the future infinite set. If L,P,F are three sets of elements of past, present, future respectively then we can see a relationship with these three.

We are in a set which is finite or our present world is taken with some elements which are in a finite set. The set from which our present world comes is an infinite set or our set is linked with a past set which is an infinite set. Someone can say our present set has a link with the past infinite set. It may be that all the elements of our present set were the elements of the past set or all the elements have a link with the elements of the past set. When the present set is a subset of the past set then all the elements of the present set are the elements of the past set. When all the elements are linked with the elements of the past set or there are some elements of the present set that have a relation of the elements of the past then there exists a relation between two sets, present set and past set. That rule or property to find out the relationship between the two sets past and present is needed to go from present to past or past to present. The property of joining the two sets, past and present is used for finding out related elements of two sets.

Similarly when we think for the future then also an infinite set is there which is linked with the present finite set. Here the infinite set of the future has all the elements of the set of future elements which are taken as assumed elements and they have a relation with the elements of the present set and past set or only the present set. If some elements are needed to find out the elements of the future then that element of the present set is called a constructive element. The rule or the property is called constructive property of a future set. If y=f(x) then x comes from the set of constants which shows a relationship between past and present. When x is real variables the set of values of y is for future whereas the set of x are for present. So if we find out x from the past then we can find the future y.

Any independent variables are taken as the representative of an element of the present set. Any dependent variables are taken as the elements of the future set.

Any constants are taken as the elements of the set of the past. Now we see that constants are unlimited, our taken variables are depending upon us so it is limited and there is unlimited solution of our dependable variable because it increases as the number of values of independent variables increases . If we want to put this in a mathematical way then if the set of all elements or living or non living bodies at present in the earth can taken as P and set of all the living or non living bodies at past as L and the all the happenings or all the future set of living or non living bodies as F then L is greater than P and P is less than F. Rate of change of a character of one element of the present depends upon the element of the past. The character change of the present is helpful for knowing the probability of happenings of the future change.

A man is known by his past actions and that can be taken as constants then we put those values to his present action taken as independent variables and if he is given a work to do which is related with the present variable then we can find his future . Suppose we find out a rule with two variables x and y then the rate of change of y with respect to x (dy/dx) will give us a view for the happenings of the future. When we give the value of x then they are from the past and get a perfect idea or value from the past. Any differential equation is an example of the relationship between given and non given or present to future. When we assign the value of the independent variables then we get the proper present for a past and we get a link.

Let y=f(x) be a function then the independent variable is x and the dependent variable is y. The variable x belongs to the present set and y belongs to the future set but when we give a particular value of x which consists of some constants then we get the present set as a past with the proper relation f or we find the rule f. A function made with or joined with other functions makes new rules and that are the examples of one set to another by different rules. If the rule is known or constructed by some constants then we find a real present set.

A matrix, a given constraint , a linear programming problem are the rules. From a matrix we can construct another matrix by the rules of matrix. From an equation or some constraints we get some definite values of the variable. From a linear programming problem we can reach a solution. So we can go from the present set to the future set and we can find a relation of the past set to the present set also by matrix , constraints solving and linear programming problem solving.