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**Syed K Shahwali\*** (SKshahwali@Yahoo.com), 1 Eric Place apt 10, N. Providence, RI 02911. *The game of Infinity : The Study of Numbers tending to Infinty; in case of additions, Multiplication, Division and Subtraction.* Preliminary report.

### Introduction

The purpose for writing the New game of Infinity is to find a solid result when the Variables ( Numbers ) are approaching to infinity. For example if  $x \rightarrow \infty$  (infinity) and  $y \rightarrow \infty$  (infinite), What is  $x-y$  or  $y-x$  . So these types of interested cases are disused in my research thesis. Now the cardinality of Set of Natural Number is Infinite or countably Infinite . Similarly cardinality of Set of Positive Integers is Infinite or countability Infinite. So if we subtract these two numbers we should get zero as a net result. Again if we take cardinality of set ( Natural Numbers divisible by 2) and subtracts it from the cardinality of set ( Natural Numbers) we get 2 Infinity. Since these second is the double of other. So I tried to solve the expression without using the term cardinal or ordinal. I take advantage of D'l Hopital's ., who try to solve these expression using derivatives or the slope of line or curve. (Received March 29, 2006)