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# Zaman's Giant Equations

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**Abstract:** Equations! The one word that can describes everything. It is a real world magic. One can just feel it but can't touch, can't talk. All equation already exists in nature, but you have to discover it to see it's beauty, it's purity. But this tiny baby like things can also be very harmful. Like  $E=MC^2$ . This one equation 2 millimeter in size can destroy the whole nature, you will see some beauty unique series equation that I have discovered throughout this paper. Some ideal series where infinity become friend with finite and become a superposition with finite-Infinite euler series. I am going to dedicate this paper in the fate of my grand-father Mr. Zaman a successful school teacher in his career and a successful father who told me if I become a professional scientist he will give me his half property as a gift. But I think I deserve his full property !!!!!

(1)

Keywords: In this paper I use following symbols to clarify the equation.

- The symbol (^) represent the power
- The letter "Pi" represent the pie symbol!
- 'e' represent the euler number
- Symbol '\*' represent the multiplication symbol

# **1. Introduction**

We know two beautiful laws about euler number one is called the beautiful equation in math and other is the infinistimal expansion of euler number. From this two basic and beautiful equation we are going to discover anther new equation. From that equation we will see the nature in Mathematical series.

*e^i\*pie+1=0----(Euleridentity,the beautifulequationinmath)* 

 $e^{x=1+x+(x^{2})/2!}$ + $x^{3/3!+x^{4/4!+x^{5/5!+.....{Expansion of euler series}}$ (2)

We will at first use equation no:2 and substitute  $e^e^e^e^e^e^e^e^e^e^e$  groundbreaking infinity e's in the symbol of equation 2 (x).

since this are infinity e's we can cancel e^e^e--- from both side .

And now we are going to use equation number (1) e^i\*pie +1=0 and substitute it ineq(2). It becomes=> e^i\*pie+1=1+(e^e^e^e^e^e-e^-e^-----)^2/2!+ (e^e^e^e^e^e^-)^3/3! + -----

Now we can cancel '1' from both side itbecome =>

e^i\*pie = (e^e^e^e^e-----)^2/2!+(e^e^e^e^e^e----)^3/3!

 $-)^{2/2!+}(e^e^e^e^e^e^e_{-2---})^{3/3!}$  (6) we then again use equation (2) but in this time we will substitute I\*pie in x . it become  $e^i = 1+i*pie-pie^{2/2!+i*pie^{3/3!}-pie^{4/4!}+(continued)}$ 

(5)

1+i\*pie-pie^2/2!+i\*pie^3/3!-pie^4/4!+\_\_\_\_(continued)= (e^e^e^e^e^e-e\_----)^2/2!+(e^e^e^e^e^e^e-e\_-----)^3/3!+(e^e^e^e-e\_----)^4/4!+.....

Now we are at the end of inventing this new series, which we call Zaman Complex Function and express it as a symbol ->

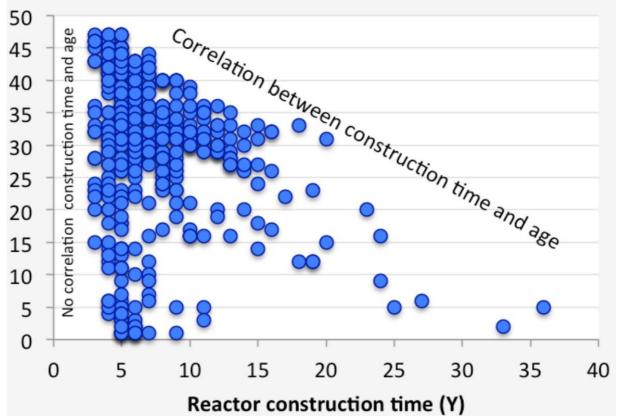
What a weird think it is !!! It seems that its has infinity times infinity but it can result a finite number also !!!!!!

It has some interesting property also . If we run this in a computer program it seems that

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Source: http://euanmearns.com/how-long-does-it-take-to-build-a-nuclear-power-plant/

It is a construction time of a nuclear reactor!!! We can also run in python turtle program it gives the same result!

identity#:~:text=Euler%27s%20formula%20is%20e<sup>i</sup>%3Dcos,things%20in%20all%20of%20mathematics!

#### References

- [1] https://en.wikipedia.org/wiki/Euler%27s\_identity
- [2] Ramanujan's Notebooks 1

#### Summation of series books

- [3] A synopsis of pure and applied Mathematics
- [4] http://euanmearns.com/how-long-does-it-take-tobuild-a-nuclear-power-plant/
- [5] https://www.investopedia.com/terms/e/eulersconstant.asp#:~:text=Euler% 27s% 20number% 20is% 2 0an% 20important,repeats% 20(similar% 20to% 20pi).
- [6] https://www.mathway.com/Algebra
- [7] https://photomath.com/en/
- [8] https://paw.princeton.edu/article/mindmathematician
- [9] https://paw.princeton.edu/article/mindmathematician
- [10] A method of doing pure and applied mathematics written for dhaka university B.SC students
- [11] https://en.wikipedia.org/wiki/Lagrange\_multiplier#
  :~:text=In%20mathematical%20optimization%2C
  %20the%20method,chosen%20values%20of%20th
  e%20 variables).
- [12] https://en.wikipedia.org/wiki/Laplace\_transform#:~:t ext=In%20mathematics%2C%20the%20Laplace%2 0transform,%2C%20or%20s-plane).
- [13] https://youtu.be/McOc6OUC7Pc
- [14] https://www.khanacademy.org/math/ap-calculusbc/bc-series-new/bc-10-14/v/euler-s-formula-andeuler-s-

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