

Exploration of The Euler Number

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Euler number theory has been an interesting topic as it is complex and difficult to understand. To make this topic easy to understand for me, I decided to explore Euler number. Euler number is used in many different situations like trigonometry, logarithms and my favourite integration. These are some [areas](#) which we have studied in IB Math SL. There is more importance to Euler number than the IB curriculum has taught me. This is one reason I wanted to explore this topic.

The concept of irrational numbers and their usage makes the topic more interesting to me. Moreover, Euler e is one [irrational number](#) which is equal to its derivative and integral. Math has surrounded the world with calculation and there we have

Introduction:

Originally e was constantly used by many mathematicians in 17th and 18th century. It was denoted by Swiss mathematician, Leonhard Euler as e .

Constant $e = 2.71828182845904523536028747135266249775724709369995\dots$

The history of e starts with John Napier who aimed to simplify logarithms multiplication into addition. Today, this is almost equivalent to

$$y = \log_b x \text{ and only if } b^y = x$$

Constant e is also the base of all logarithms Gottfried Leibniz, in his works identified constant e as b . however; Leonhard Euler used e as constant in his works. Moreover, he brings the relevance of constant e in application and host. This application is in modern mathematic and choice of symbol e is said to have been retained in his honour. Importance of constant e is alongside 0, 1, π and symbol i . Alongside, there are other alphabets which have values like π , ϕ and symbol e . π and constant e are irrational numbers. However, difference between π and constant e is that π is used in basic maths. Whereas, constant e is used in mor...

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...den ratio. Constant e can be represented in continued fraction which gives some more realistic data. The usage of constant e is been diversified to different field with different mathematicians and scientists; Leonhard Euler using word e for all his works then Jacob looking for the numerical value of constant e .

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