A collaborative LaTeX document

Class of ID2090, Third Trimester of 2021 batch

June 14, 2022

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1 Introduction

This file includes tex files from the folders of each student. The students are expected to update the file named after their roll number and place any images in the same folder. Students do not have to edit this master document. Once the student has sent a pull request which is accepted and processed successfully, his/her assignment submission is deemed to be complete.

You are also welcome to add references and cite them. Examples on how to do that are on the course repository [1].

2 AE21B003

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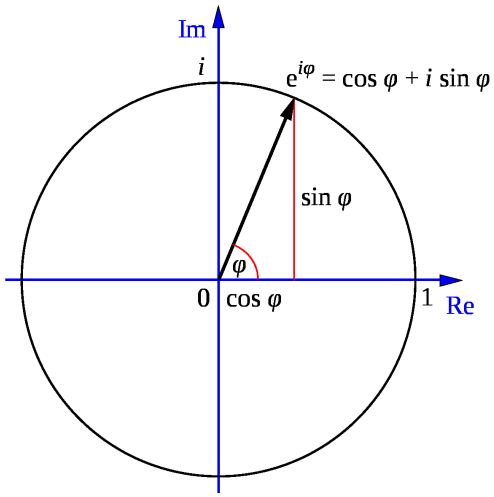
$$\boxed{e^{\iota\pi} + 1 = 0} \tag{1}$$

The equation above is called "**Euler's identity**". It is named after the Swiss mathematician **Leonhard Euler**. It's a special case of Euler's formula which is $e^{\iota x} = \cos x + \iota \sin x$ when x = π. Euler's identity is often cited as an example of deep **mathematical beauty**. This is because it connects the most fundmental numbers in mathematics e, π, ι in a very simple manner.



The figure above signifies the value of $e^{\iota x} = \cos x + \iota \sin x$ based on ϕ plotted on the Real, Imaginary number plane.

Symbols	***Explanation***
π	The number π is a mathematical constant that is the ratio of a circle's circumference to its diameter, approximately equal to 3.14159.
ι	Complex Numbers in Maths. Complex numbers are the numbers that are expressed in the form of a+ib where, a,b are real numbers and 'i' is an imaginary number called "iota". The value of i = $(\sqrt{-1})$.
e	The number e, also known as Euler's number, is a mathematical constant approximately equal to 2.71828 which can be characterized in many ways. It is the base of the natural logarithms. It is the limit of (1 + 1/n)n as n approaches infinity

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44 Conclusions

If this master tex file could be compiled successfully, it means that the class has learnt the concepts of Git as well as LaTeX properly.

45 References

References

[1] Repository for id2090 course. `https://github.com/gphanikumar/mm2090`. Accessed: 2022-06-13.