

## ELECTRIC CIRCUIT ANALYSIS

### CHAPTER ONE: ELECTRIC CIRCUIT ANALYSIS

#### 1.1 Principles of Complex Quantities

**Definition:** In mathematics, a complex number is an element of a number system that contains the real numbers and a specific element denoted  $j$ , called the imaginary unit, and satisfying the equation  $j^2 = -1$ . It is generally a number of the form  $z = x + jy$

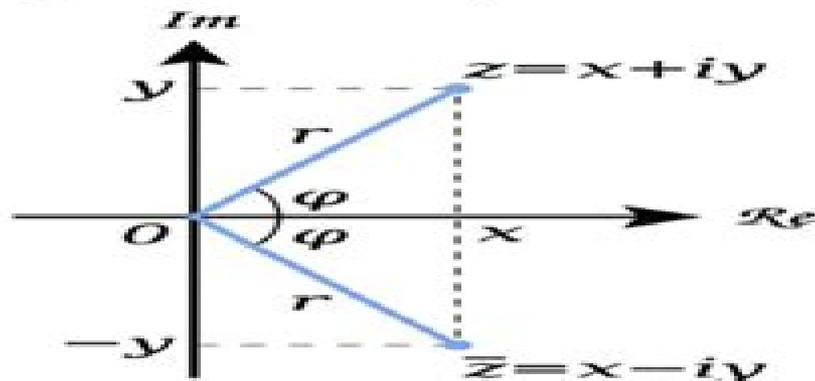
Complex number =  $z$

Real part =  $x$

Imaginary part =  $jy$

For example,  $2 + j3$  is a complex number.

#### Graphical Representation of Complex Numbers



$z = x + jy$  - positive imaginary part

$z = x - jy$  - negative imaginary part

$r$  = magnitude or modulus of  $z$  which is given by:

$$r = |z| = \sqrt{x^2 + y^2}$$

$\Phi$  = angle between  $x$  and  $r$  known as phase angle

#### Ways of expressing complex numbers

##### a) Rectangular form

The number is generally expressed as  $z = a + jb$

Rem:  $a$  and  $b$  are real numbers but due to the presence of imaginary unit  $j$ , the term  $jb$  becomes imaginary number.

##### b) Polar Form

From the graphical representation

$$\cos\Phi = x/r \text{ i.e. } x = r\cos\Phi$$

$$\sin\Phi = y/r \text{ i.e. } y = r\sin\Phi$$

$$z = r\cos\Phi + j r\sin\Phi$$

$$z = r \angle \Phi$$

# Introduction To Electric Circuit Analysis

**Guillaume Favre**



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