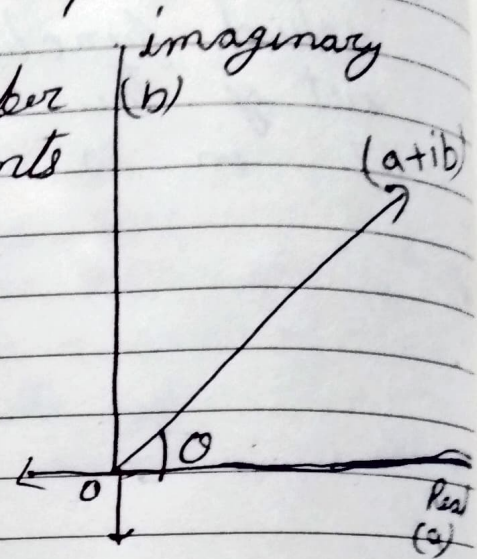


COMPLEX NUMBER GRAPHICAL REPRESENTATION

A complex number can be represented graphically as a point on a co-ordinate plane called the complex plane. The horizontal axis represents the real part of the number and the vertical axis represents the imaginary part.



1. use the horizontal axis to plot the real part of the number

2. use the vertical axis to plot the imaginary part of the number

3. Express the complex number as an ordered pair (a, b) , where a is the horizontal co-ordinate and b is the vertical co-ordinate.

other ways to represent complex numbers.

Polar form \rightarrow

A complex number can also be represented in polar form, using the radius and the angle from the positive real axis.

2010					JUNE					2010					MAY								
Mon		7	14	21	28	Mon	5	12	19	26	Mon	5	12	19	26	Mon	5	12	19	26			
Tue	1	8	15	22	29	Tue	6	13	20	27	Tue	6	13	20	27	Tue	6	13	20	27			
Wed	2	9	16	23	30	Wed	7	14	21	28	Wed	7	14	21	28	Wed	7	14	21	28			
Thu	3	10	17	24		Thu	1	8	15	22	29	Thu	1	8	15	22	29	Thu	1	8	15	22	29
Fri	4	11	18	25		Fri	2	9	16	23	30	Fri	2	9	16	23	30	Fri	2	9	16	23	30
Sat	5	12	19	26		Sat	3	10	17	24	31	Sat	3	10	17	24	31	Sat	3	10	17	24	31
Sun	6	13	20	27		Sun	4	11	18	25		Sun	4	11	18	25		Sun	4	11	18	25	

Argument diagram \rightarrow

A complex number can be represented as a point on an Argument diagram, which is a diagram of the complex plane.

- * The length of the line segment from the origin to the point representing the complex number is called the modulus.
- * The angle from the positive real axis to the line segment is called the argument