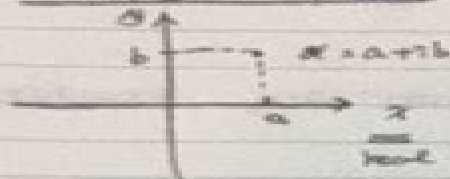


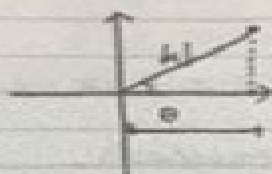
Lecture 12

Cartesian Form



2/1/2017

polar form



$$z = |z| (\cos \theta + i \sin \theta)$$

$$|z| = \sqrt{a^2 + b^2}$$

$$\text{Let } z_1 = r_1 (\cos(\theta_1) + i \sin(\theta_1))$$

$$z_2 = r_2 (\cos(\theta_2) + i \sin(\theta_2))$$

$$z_1 z_2 = r_1 r_2 (\cos(\theta_1 + \theta_2) + i \sin(\theta_1 + \theta_2))$$

$$\frac{z_1}{z_2} = \frac{r_1}{r_2} (\cos(\theta_1 - \theta_2) + i \sin(\theta_1 - \theta_2))$$

These formulae lead to De Moivre's Theorem

$$\text{Let } z = r (\cos(\theta) + i \sin(\theta))$$

$$\text{Then } z^n = r^n (\cos(n\theta) + i \sin(n\theta))$$

(or works for all integers n)

This is used to calculate power of complex number and roots of complex number.

EX Find $(1 + \sqrt{3}i)^8$, writing it in Cartesian form $(a + ib)$
 $((1 + \sqrt{3}i)^4)^2$ Use De Moivre's Theorem.

Find First: Rewrite in polar form.

$$1 + \sqrt{3}i = 2 (\cos \frac{\pi}{3} + i \sin \frac{\pi}{3})$$

$$r = \sqrt{1^2 + (\sqrt{3})^2} = \sqrt{4} = 2$$

Apply Theorem:

$$(1 + \sqrt{3}i)^8 = [2 (\cos(\frac{\pi}{3}) + i \sin(\frac{\pi}{3}))]^8 = 2^8 (\cos(\frac{8\pi}{3}) + i \sin(\frac{8\pi}{3}))$$

$$= 2^8 (\cos(\frac{2\pi}{3}) + i \sin(\frac{2\pi}{3})) = 128 + 128\sqrt{3}i$$

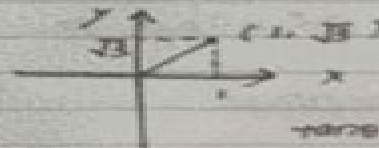
EX Find the 6th root of negative 64 =
 $64 (\cos(\pi) + i \sin(\pi))$

$$\text{Let } z \text{ be } r (\cos \theta + i \sin \theta)$$

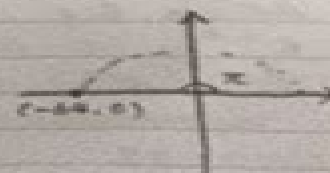
And assume that z is a 6th root of -64

$$\therefore z^6 = -64$$

In polar form:



$$\tan \theta = \frac{\sqrt{3}}{1} \Rightarrow \theta = \frac{\pi}{3}$$



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S Baum



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<http://www.armchairempire.com/data/publication/fetch.php/homelite%20xl10%20chainsaw%20manual.pdf>

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