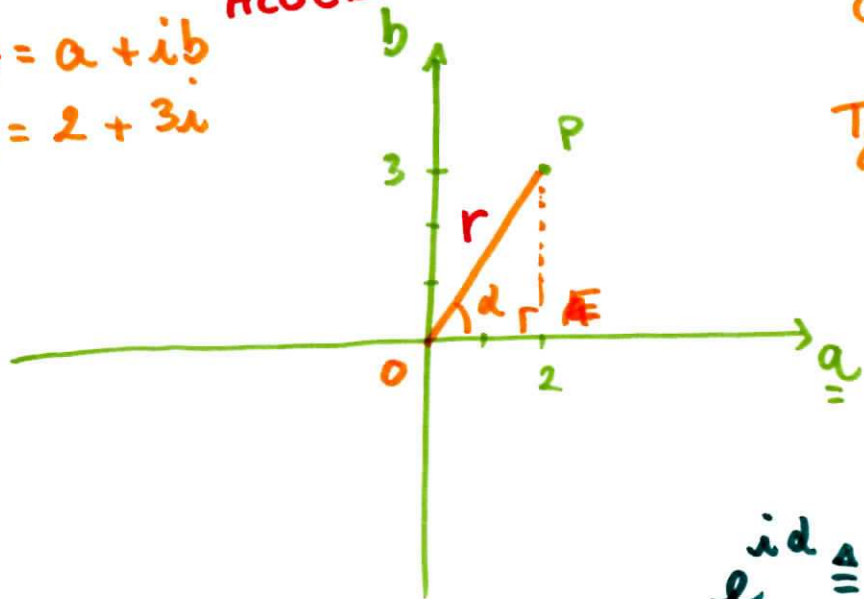


LEZIONI PRIVATE 346/3103392

(a, b) $a, b \in \mathbb{R}$
ALGEBRICO

$z = a + ib$
 $z = 2 + 3i$



$\overline{OP} = \sqrt{2^2 + 3^2} = \sqrt{13} = \sqrt{a^2 + b^2} = |z|$

POLARE

$Tgd = \frac{3}{2} = \frac{b}{a}$

$d = \arctg \frac{b}{a}$

$a + ib$

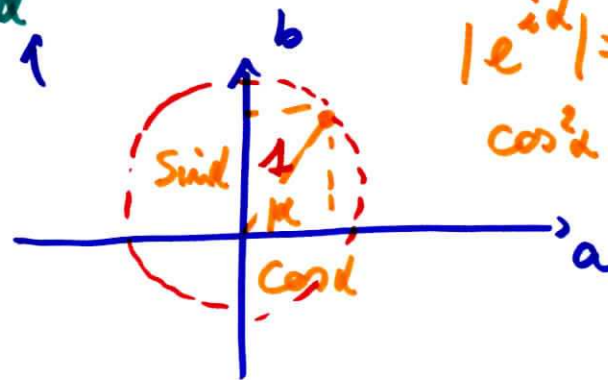
TRIGONOMETRICA

$r \cos d + i r \sin d = r (\cos d + i \sin d)$
 $\underbrace{\hspace{10em}}_{e^{id}}$

$e^{id} \triangleq \frac{\cos d + i \sin d}{1}$

$r e^{id}$

FORMA ESPONENZIALE



$|e^{id}| = 1$

$\cos^2 d + \sin^2 d = 1$