Compute real and imaginary part of $z = \frac{i-4}{2i-3}$.

$$Z = \frac{(i-4)}{(2i+3)} \frac{(2i+3)}{(2i+3)} = \frac{2i^2 - 5i - 12}{4i^2 - 9} = \frac{-14 - 5i}{-13}$$

$$\overline{z} = \left(\frac{4}{13}\right) + \left(\frac{5}{13}\right)^2$$

Write in the "trigonometric" form $(\rho(\cos\theta + i\sin\theta))$ the following complex numbers

$$(\cos \frac{\pi}{3} - i \sin \frac{\pi}{3})^{7}.$$

$$\gamma = \sqrt{e^{2} + b^{2}} \quad 0 = + em^{7} \left(\frac{b}{a}\right)$$

$$\gamma = \sqrt{2}. \quad + em^{7} = -\frac{\sqrt{2}}{2} + em^{7} = + em^{7} \left(\frac{b}{a}\right)$$

$$\gamma = \sqrt{2}. \quad + em^{7} = -\frac{\sqrt{2}}{3}.$$

$$\gamma = \sqrt{2}. \quad + em^{7} = -\frac{\sqrt{2}$$

Find $z \in \mathbb{C}$ such that

$$|z+3i| = 3|z|$$
. $Z = a+b^2$
 $z+3^2 = a+(b+3)^2$ $|z| = \sqrt{a^2+b^2}$
 $|z+3^2| = \sqrt{a^2+(b+3)^2}$ $\sqrt{a^2+(b+3)^2} = 3\sqrt{a^2+b^2}$
 $a^2+(b+3)^2 = 9a^2+9b^2$

$$|2+3i| = \sqrt{a+(b+3)} = 4a^{2}+9b^{2}$$

$$|2a^{2} = b^{2} + (b+4) - 4b^{2}$$

$$|2a^{2} = b^{2} + (b+4) - 4b^{2}$$

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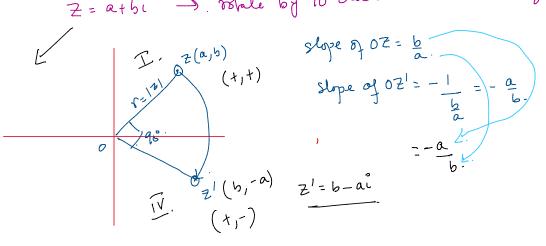
$$|2+2i| = \sqrt{a+(b+3)} = 4a^{2}+9b^{2}$$

$$|2+3i| = \sqrt{a+(b+3)} = 4a^{2}+9b^{2}$$

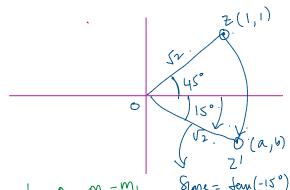
$$\frac{(J5)^{c}}{e^{i \ln J5}} = \frac{\sqrt{5} e^{0.46}}{e^{i \ln J5}} = \frac{5} e^{0.46}}{e^{i \ln J5}} = \frac{\sqrt{5} e^{0.46}}{e^{i \ln J5}} = \frac{\sqrt{5} e^{0.46}}{e^{i \ln J5}} = \frac{\sqrt{$$

Rotalini of complex no.

Z = a+bi) volate by 90° clocheursi avours tre origin

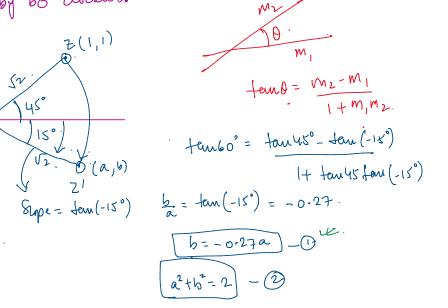


votate 90° antidocleurse Z'=-6+ai



Step1 $\tan \theta = \frac{m_2 - m_1}{1 + m_1 m_2}$. Step2 $a^2 + b^2 = \gamma^2$.

Step
$$2$$
 $a^2+b^2=Y^2$



222+2"=0.