

$$4 + i \quad |4+i| = \sqrt{(4+i)(4-i)} = \sqrt{17}$$

$$|\underline{a} + \underline{b}i| = \sqrt{\underline{a}^2 + \underline{b}^2} \iff \text{distance from } (0,0) \text{ to } (a,b)$$

$4 + i$ "acts like $(4, 1)$ "

$$(4+i)^2 = \underline{15} + \underline{8}i$$

II triple!

$$|(4+i)^2| = \underline{17}$$

