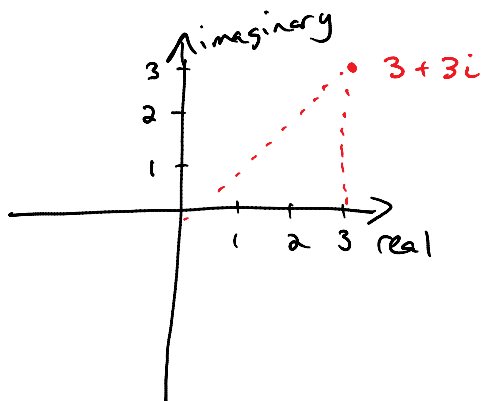


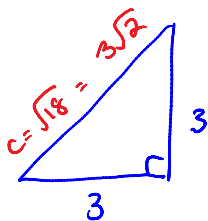
Section 8.3: Complex Numbers in Trig Form

Friday, March 04, 2016
12:06 PM

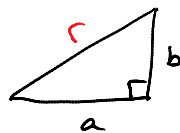
graph the complex number $3+3i$ in the complex plane.



what is the distance from the origin to this point?



in general:



complex
number
 $a+bi$

$$r = \sqrt{a^2 + b^2}$$

from
Pythagoras

so, what is the absolute value of a complex number?

→ the distance from the origin

$$|3+3i| = 3\sqrt{2}$$

in general,

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