

<u>Concept</u>

<u>Complex Number</u>: a number that can be written in the form a + bi, where a and b are real numbers, and i is the imaginary unit. <u>a is called the real part</u> and <u>bi is called the imaginary part</u>

Examples: -3 + 4i, 7 - i

<u>Imaginary unit</u>: the number *i*. (Note: $i = \sqrt{-1}$)

<u>Pure Imaginary Number</u>: square roots of negative real numbers; (the real part is 0) Examples: 8i, -2i

<u>Real Number</u>: a number with an imaginary part equal to 0 Examples: $5, -3, \sqrt{7}$

> Types of Complex Numbers 2 + 5/ - 5/ 3 pure real number imaginary number











