







The terms Complex Number and Imaginary Number are quite often used interchangeably.

notes

$$a+bi$$

Write each as a Complex Number in Standard Form

1.
$$2 + \sqrt{-9}$$

2.

Simplify each expression:

1.
$$(6 - \sqrt{-64}) + (5 + \sqrt{-49})$$

 $(6 - 8i) + (5 + 7i) = 11 - i$

2.
$$(-11 + \sqrt{-9}) - (6 - \sqrt{-144})$$

$$(-17 + 35) - (6 - 12i)$$

$$i^{2} = \sqrt{-1}$$

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Simplify each:

1. $4i(3+6i)$

$$|2: (2+3i)(1-5i)|$$

$$|2: +3i|$$

$$|3: +3i|$$

$$|3: +3i|$$

$$|3:$$

$$(1+5i)^2$$

$$(4+2i)(4-2i)$$