

# COMPLEX NUMBERS\*

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## Abstract

A Complex Number is any number that can be expressed in the form  $a + bi$  where  $a$  and  $b$  are real numbers. Complex numbers are not algebraic expressions, they are numbers that have a real part ( $a$ ) and an imaginary part ( $bi$ ). These tutorials cover the imaginary number  $i$  and how to add, subtract, multiply, and divide complex numbers.

The Imaginary Number  $i$ <sup>1</sup> – What is the imaginary number  $i$ , and how is it used? This tutorial will teach you all about it.

Adding and Subtracting Complex Numbers<sup>2</sup> – What are complex numbers, and what's up with this imaginary number  $i$ ? Use this Tab Tutor Series program to learn about complex numbers and see how to add and subtract them.

Multiplying Complex Numbers<sup>3</sup> – What are complex numbers, and what's up with this imaginary number  $i$ ? Use this Tab Tutor Series program to learn about complex numbers and see how to multiply them.

Dividing Complex Numbers<sup>4</sup> – What are complex numbers, and how do you divide them? Use this Tab Tutor Series program to learn about complex numbers and see how the complex conjugate can help you divide them.

Bottomless Worksheet of Adding Complex Numbers<sup>5</sup> – With this Bottomless Worksheet you can get endless practice on adding complex numbers (numbers including the imaginary number  $i$ ). At the click of a button, there are ten more problems for you to solve. A printed copy and answer sheet is also available.

Bottomless Worksheet of Subtracting Complex Numbers<sup>6</sup> – Get endless practice on subtracting complex numbers (numbers including the imaginary number  $i$ ) with this Bottomless Worksheet. Ten more problems for you to solve, a printed copy, and an answer sheet are always a button-click away.

Bottomless Worksheet of Multiplying Complex Numbers<sup>7</sup> – This Bottomless Worksheet is a great way to practice multiplying complex numbers by real numbers and each other. At the click of a button, it creates ten more problems for you to solve. A printed copy and answer sheet is also available.

Bottomless Worksheet of Dividing Complex Numbers<sup>8</sup> – Get endless practice right here in dividing complex numbers! At the click of a button, this Bottomless Worksheet generates ten more problems for you to solve. Plus, a printed copy or answer sheet is only a click away.

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<sup>1</sup><http://www.college-cram.com/study/algebra/complex-numbers/the-imaginary-number-i/>

<sup>2</sup><http://www.college-cram.com/study/algebra/complex-numbers/adding-and-subtracting-complex-numbers/>

<sup>3</sup><http://www.college-cram.com/study/algebra/complex-numbers/multiplying-complex-numbers/>

<sup>4</sup><http://www.college-cram.com/study/algebra/complex-numbers/dividing-complex-numbers/>

<sup>5</sup><http://www.college-cram.com/study/algebra/complex-numbers/bottomless-worksheet-of-adding-complex-numbers/>

<sup>6</sup><http://www.college-cram.com/study/algebra/complex-numbers/bottomless-worksheet-of-subtracting-complex-numbers/>

<sup>7</sup><http://www.college-cram.com/study/algebra/complex-numbers/bottomless-worksheet-of-multiplying-complex-numbers/>

<sup>8</sup><http://www.college-cram.com/study/algebra/complex-numbers/bottomless-worksheet-of-dividing-complex-numbers/>

Complex Numbers Study Sheet<sup>9</sup> – Use this printable study sheet to review or learn the techniques for working with complex numbers and the imaginary number  $i$ , including addition, subtraction, multiplication, and division.

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<sup>9</sup><http://www.college-cram.com/study/algebra/complex-numbers/study-sheet-of-complex-numbers/>