Complex Number
Venn Diagram

Complex Number

Real Numbers

$5 + \sqrt{-15}$

$3 + 2i$

Rational

$\frac{6}{7}$ -0.25

Integers
...-1, 0, 1,...

$-\frac{5}{8}$

3.5

Whole
0, 1, 2, 3,...

Natural
1, 2, 3,...

Irrational
$\sqrt{10}$
π
$-\sqrt{8}$ $\sqrt{2}$
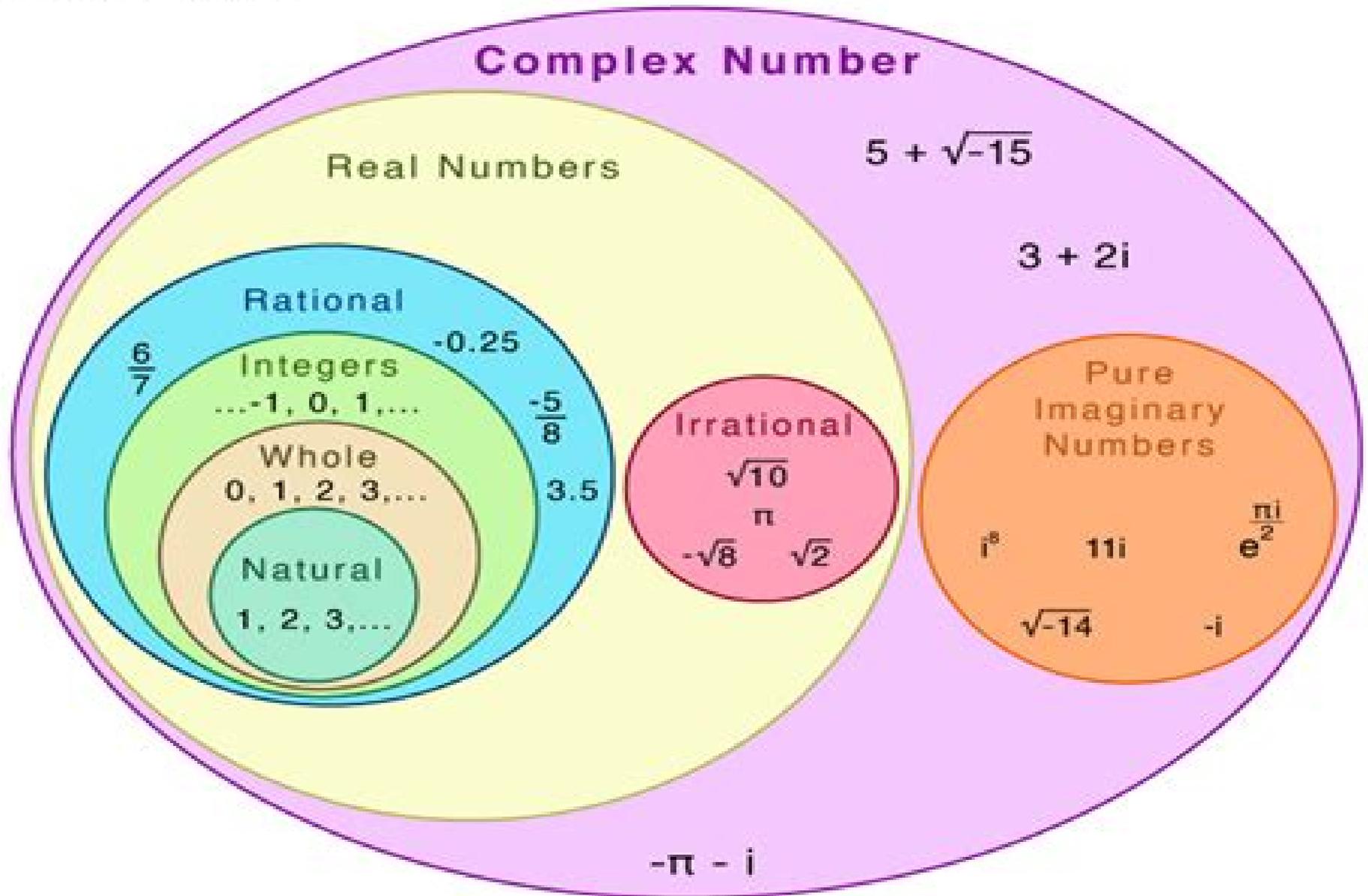
Pure
Imaginary
Numbers

i^6 11i $e^{\frac{\pi i}{2}}$

$\sqrt{-14}$ -i

$-\pi - i$

Complex Numbers And Geometry

Isaak Moiseevič Jaglom

Complex Numbers And Geometry:

Complex Numbers and Geometry Liang-shin Hahn,2019-12-26 The purpose of this book is to demonstrate that complex numbers and geometry can be blended together beautifully This results in easy proofs and natural generalizations of many theorems in plane geometry such as the Napoleon theorem the Ptolemy Euler theorem the Simson theorem and the Morley theorem The book is self contained no background in complex numbers is assumed and can be covered at a leisurely pace in a one semester course Many of the chapters can be read independently Over 100 exercises are included The book would be suitable as a text for a geometry course or for a problem solving seminar or as enrichment for the student who wants to know more **Complex Numbers in Geometry** I. M. Yaglom,2014-05-12 Complex Numbers in Geometry focuses on the principles interrelations and applications of geometry and algebra The book first offers information on the types and geometrical interpretation of complex numbers Topics include interpretation of ordinary complex numbers in the Lobachevskii plane double numbers as oriented lines of the Lobachevskii plane dual numbers as oriented lines of a plane most general complex numbers and double hypercomplex and dual numbers The text then takes a look at circular transformations and circular geometry including ordinary circular transformations axial circular transformations of the Lobachevskii plane circular transformations of the Lobachevskii plane axial circular transformations and ordinary circular transformations The manuscript is intended for pupils in high schools and students in the mathematics departments of universities and teachers colleges The publication is also useful in the work of mathematical societies and teachers of mathematics in junior high and high schools *Geometry of Complex Numbers* Hans Schwerdtfeger,1979-01-01 Illuminating widely praised book on analytic geometry of circles the Moebius transformation and 2 dimensional non Euclidean geometries This book should be in every library and every expert in classical function theory should be familiar with this material The author has performed a distinct service by making this material so conveniently accessible in a single book Mathematical Review *Introduction to the Geometry of Complex Numbers* Roland Deaux,2013-01-23 Geared toward readers unfamiliar with complex numbers this text explains how to solve problems that frequently arise in the applied sciences and emphasizes constructions related to algebraic operations 1956 edition **Complex Numbers in Geometry** Isaak Moiseevič Jaglom,1968 *Complex Numbers in Geometry* ,1968 **Geometry of Complex Numbers** H. Schwerdtfeger,1965 Complex Numbers from A to …Z Titu Andreescu,Dorin Andrica,2007-10-08 It is impossible to imagine modern mathematics without complex numbers Complex Numbers from A to Z introduces the reader to this fascinating subject that from the time of L Euler has become one of the most utilized ideas in mathematics The exposition concentrates on key concepts and then elementary results concerning these numbers The reader learns how complex numbers can be used to solve algebraic equations and to understand the geometric interpretation of complex numbers and the operations involving them The theoretical parts of the book are augmented with rich exercises and problems at various

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