TEKS 2A.2.A

LESSON 5-9

Operations with Complex Numbers

Know it! Note

Lesson Objectives (p. 382):

Vocabulary

1. Complex plane (p. 382): _____

2. Absolute value of a complex number (p. 382): _____

Key Concepts

3. Absolute Value of a Complex Number (p. 382):

WORDS	ALGEBRA	NUMBERS	GRAPH

TEKS 2A.2.A

LESSON 5-9

Operations with Complex Numbers

Lesson Objectives (p. 382):

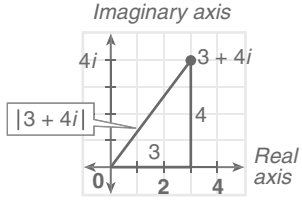
perform operations with complex numbers.

Vocabulary

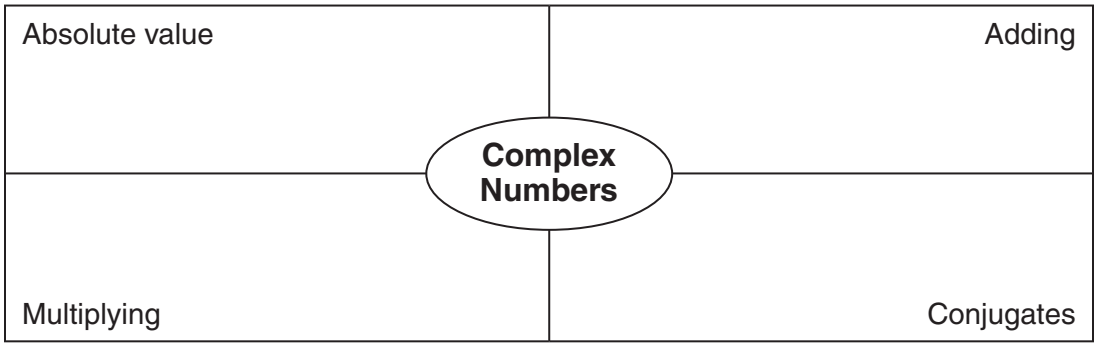
1. Complex plane (p. 382): a set of coordinate axes in which the horizontal axis represents real numbers and the vertical axis represents imaginary numbers.
2. Absolute value of a complex number (p. 382): the distance from the origin in the complex plane.

Key Concepts

3. Absolute Value of a Complex Number (p. 382):

WORDS	ALGEBRA	NUMBERS	GRAPH
The absolute value of a complex number $a + bi$ is the distance from the origin to the point (a, b) in the complex planer, and is denoted $\lvert a + bi \rvert$.	$\lvert a + bi \rvert = \sqrt{a^2 + b^2}$	$\lvert 3 + 4i \rvert = \sqrt{3^2 + 4^2} = \sqrt{9 + 16} = \sqrt{25} = 5$	 $\lvert 3 + 4i \rvert = \sqrt{3^2 + 4^2} = \sqrt{9 + 16} = 5$

4. Get Organized In each box, give an example. (p. 385).



4. Get Organized In each box, give an example. (p. 385).