Name:_____ Date:_____ Block:_____

Section 7-9: *More About Complex Numbers*

Warm-up:

Review: $i =$ _____ $i^2 =$ _____ $i^3 =$ _____ $i^4 =$ _____

Do the indicated operation:

1) i^{26} 2) $\sqrt{-68}$ 3) $\sqrt{-7} * \sqrt{-3}$

Complex Numbers:

Write in a+bi form:

1.) 2.) 3.) 4)

Add or subtract the following:

1.) 2.) 3.) 4)

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Section 7-9: *More About Complex Numbers*

Multiplying Complex Numbers:

RECALL:

EXAMPLES:

1.) 2.) 3.) 4)

Complex Conjugates

- **Definition**

EXAMPLES:

Write the conjugate of the following…

1.) 2.) 3.) 4)

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Section 7-9: *More About Complex Numbers*

THINGS TO CONSIDER:

Division and Reciprocals:

The division of radicals is similar to the division of complex numbers. For radicals, we did not radicals in the denominator. For Complex numbers, we do not like having imaginary numbers in the denominator.

1.) 2.) 3.) 4)