

**Unit 4.3 – Complex Numbers I Can Sheet**

Name: \_\_\_\_\_

*Standards: CNE.1 Know that there is an imaginary #  $i$ , such that  $i^2=-1$  and every complex # can be written in the form  $a+bi$ .*

*I Can...*

- *Define imaginary numbers & complex numbers*
- *Explain when we would use complex numbers*
- *Simplify radicals involving imaginary numbers – without decimals, etc.*
- *Solve quadratics*
- *Add/Subtract/Multiply & Divide complex numbers*
- *Explain what complex conjugates are and how they are useful when simplifying*

**Items in bold should be turned in to me or placed in your binder.**

\_\_\_\_\_ **video notes (3)**

\_\_\_\_\_ **notes guide**

\_\_\_\_\_ **complex puzzle**

\_\_\_\_\_ **worksheet 1 (Evens)**

\_\_\_\_\_ extra videos

\_\_\_\_\_ book assignment

\_\_\_\_\_ Pre-MC

\_\_\_\_\_ **mastery check**

Pre-MC:

Simplify.

1.  $\sqrt{99}$

2.  $\sqrt{-81}$

## Algebra 2

3.  $i^{203}$

4.  $(10 - 4i) - (7 + 3i)$

5.  $(3 + 4i)(4 - 7i)$

6.  $\frac{3i}{4+2i}$

Solve for x.

7.  $8x^2 + 96 = 0$