

## COMPEX NUMBERS

### Agenda:

#### Objective:

- Review Complex Numbers

(1 presentation for Extra Credit?)

1) Take out HW to be Checked

Questions?

2) Hand back Exit Tickets

Questions?

3) Complex Number BINGO

HW: "518 Complex Number Graded Assignment" Due Monday 3/10/14 in Class.

Late assignments will receive a 0%.

(I will assist anyone on this assignment during X blocks on 3/3/14 and 3/6/14. I will not assist on 3/10/14 as it will be considered late.)

<b>B</b>	<b>i</b>	<b>n</b>	<b>G</b>	<b>O</b>
		<b>free</b>		

Choose 24 solutions to put into your BINGO grid.  
Place in any order you like. (Cross off the ones you have used to keep track)

$7 + 6i$

$4i$

$7i$

$-15i$

$-5 - 9i$

$4 + i$

$15 + i$

$2 + i$

$-7 - 6i$

$32 - 8i$

$10i$

$-96 + 672i$

$168 + 126i$

$5$

$-1 + 4i$

$20$

$-216i$

$-1$

$32$

$-i$

$21 - 16i$

$-7 + 5i$

$4 + 32i$

$-56 - 8i$

$-24 + 36i$

$34 + 12i$

$96 - 228i$

$55 - 48i$

$39 - 18i$

$-98 + 114i$

$4i$

$-48 - 14i$

$-i\sqrt{5}$

$-38 + 69i$

$0$

$-75$

$i$

$$3i + i$$

$$-1 - 8i - 4 - i$$

*i*<sup>19</sup>

$$7 + i + 4 + 4$$

$$3 + 3i + 8 - 2i - 7$$



$$-3 + 6i - (-5 - 3i) - 8i$$

$$4i(-2 - 8i)$$

*i*101

$$5i \cdot -i$$

$$i^{1000} + i^{1002}$$

$$(2 - 4i)(-6 + 4i)$$

$$7i \cdot 3i(-8 - 6i)$$

$$(4 - 5i)(4 + i)$$



$$(7 - 6i)(-8 + 3i)$$

$$(-2 - i)(4 + i)$$

$$5i \cdot i \cdot -2i$$

$$-4i \cdot 5i$$

$$(-3 + 2i)(-6 - 8i)$$

$$(1 - 7i)^2$$

$$(8 - 6i)(-4 - 4i)$$

$$6(-7 + 6i)(-4 + 2i)$$



$$(-2 - 2i)(-4 - 3i)(7 + 8i)$$

$$(6i)^3$$

$$5i + 7i \cdot i$$

$$6i \cdot -4i + 8$$

$$-6(4 - 6i)$$

$$3 + 7i - 3i - 4$$

$$(8 - 3i)^2$$

$$-3i \cdot 6i - 3(-7 + 6i)$$



$$-6i(8 - 6i)(-8 - 8i)$$

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

Block: \_\_\_\_\_

**518 Complex Number Graded Assignment**

1.  $i^{2013}$

1. \_\_\_\_\_

2.  $(2i^2)^4$

2. \_\_\_\_\_

3.  $\sqrt{-81}$

3. \_\_\_\_\_

4.  $(\sqrt{-3})(\sqrt{27})$

4. \_\_\_\_\_

5.  $2i(i^3 + i^5 - i)$

5. \_\_\_\_\_

6.  $(2 + 4i) - (5 + 3i)$

6. \_\_\_\_\_

7.  $(3 - 4i)(5 + 2i)$

7. \_\_\_\_\_

8.  $(3 - 2i)(3 + 2i)$

8. \_\_\_\_\_

9. Solve for all solutions:  $x^2 + 52 = 3$

9. \_\_\_\_\_

10. Solve for all solutions:  $x^2 - 6x = -10$

10. \_\_\_\_\_

11. Find the magnitude for  $12 - 5i$ .

11. \_\_\_\_\_

12. Find  $|-3 + 5i|$

12. \_\_\_\_\_

13. a. Plot  $M = 4 + 2i$  and  $H = -5 - 3i$ .

b. Which has the greater magnitude and what is it?

