

Math 3

Name _____

Operations with Complex Numbers

Date _____

Simplify (Make sure your answers are in standard form: $a + bi$)

$$1. \ 7i - 5i$$

$$2. \ -3i + 4i$$

$$3. \ -5 + 3i + 1 - 7i$$

$$4. \ -1 - 5i - (-3 + 6i)$$

$$5. \ 6 - 3i - (3 + 2i) - (4 + 7i)$$

$$6. \ 6(-6 + 7i)$$

$$7. \ -4i \cdot 3i$$

$$8. \ (-5 - 3i)(8 + 8i)$$

$$9. \ (4 - 5i)(4 + 5i)$$

$$10. \ (7 - 5i)^2$$

$$11. \ (6 + 2i)^2$$

$$12. \ 8i(7 + 3i)(-2 + 6i)$$

$$13. -5i(5 + i) - 7i(-7 + 6i)$$

$$14. 8 - (7 - 7i) - 4 + (4 - 5i)(-5 + i)$$

$$15. (-6 - 4i)(5 - 8i) + (1 - i)(4 + 3i)$$