

Getting to Know Complex Numbers!!

Date _____ Period _____

Simplify.

1) $(4 - 6i) - (3 + 2i)$

2) $(6i) - 5 + (6 + i)$

3) $(4 + 3i) + (i) + (8i)$

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

5) $(-4 + 7i) - (-6 - 4i)$

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

7) $(-5 - 3i) - (6 + 6i)$

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

9) $(-3 - 3i) - (-1 - 4i)$

10) $(1 - 5i) - (4 + 3i)$

$$11) (5i)(-4i)(-7-i)$$

$$12) (4i)(-6i)(3-2i)$$

$$13) (-5+8i)^2$$

$$14) (6+i)^2$$

$$15) (4-2i)(1-i)$$

$$16) (6+8i)(-8-i)$$

$$17) (5i)(-2i)(-1-8i)$$

$$18) (-2+2i)^2$$

$$19) (-1+7i)(-5-8i)$$

$$20) (4+7i)^2$$

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Simplify.

1) $(4 - 6i) - (3 + 2i)$

$1 - 8i$

2) $(6i) - 5 + (6 + i)$

$1 + 7i$

3) $(4 + 3i) + (i) + (8i)$

$4 + 12i$

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

$-5 + 6i$

5) $(-4 + 7i) - (-6 - 4i)$

$2 + 11i$

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

$6 - 6i$

7) $(-5 - 3i) - (6 + 6i)$

$-11 - 9i$

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

$3 - 3i$

9) $(-3 - 3i) - (-1 - 4i)$

$-2 + i$

10) $(1 - 5i) - (4 + 3i)$

$-3 - 8i$

$$11) (5i)(-4i)(-7-i)$$

$$-140 - 20i$$

$$12) (4i)(-6i)(3-2i)$$

$$72 - 48i$$

$$13) (-5+8i)^2$$

$$-39 - 80i$$

$$14) (6+i)^2$$

$$35 + 12i$$

$$15) (4-2i)(1-i)$$

$$2 - 6i$$

$$16) (6+8i)(-8-i)$$

$$-40 - 70i$$

$$17) (5i)(-2i)(-1-8i)$$

$$-10 - 80i$$

$$18) (-2+2i)^2$$

$$-8i$$

$$19) (-1+7i)(-5-8i)$$

$$61 - 27i$$

$$20) (4+7i)^2$$

$$-33 + 56i$$