

Math Sheet

Name _____ Score _____ / 10 Teacher _____ Date _____

Operations with Complex Numbers

Perform each operation and write the answer in standard $a + bi$ form.

1. $(7i) \cdot (6i) \cdot (-7i)$

2. $(i) \cdot (6i)$

3. $(6i) - (3i)$

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

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

6. $(-4 - 4i) \cdot (5 + i)$

7. $(3i) \cdot (4 - 5i) \cdot (-1 - 4i)$

8. $(9) + (9)$

9. $(4i) + (i)$

10. $(i) \cdot (-5 + 3i)$

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Operations with Complex Numbers

Answer Key

Perform each operation and write the answer in standard $a + bi$ form.

1. $(7i) \cdot (6i) \cdot (-7i)$

Answer:

$294i$

2. $(i) \cdot (6i)$

Answer:

-6

3. $(6i) - (3i)$

Answer:

$3i$

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

Answer:

$-4i$

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

Answer:

$-18 + i$

6. $(-4 - 4i) \cdot (5 + i)$

Answer:

$-16 - 24i$

7. $(3i) \cdot (4 - 5i) \cdot (-1 - 4i)$

Answer:

$33 - 72i$

8. $(9) + (9)$

Answer:

18

9. $(4i) + (i)$

Answer:

$5i$

10. $(i) \cdot (-5 + 3i)$

Answer:

$-3 - 5i$