

Name: _____

Date: _____

Multiplying and Dividing Complex Numbers**Simplify.**

1) $(7 + 3i)(7 + 8i)$

2) $\frac{4-3i}{-4i}$

3) $(5 + 4i)^2$

4) $\frac{2+4i}{14+4i}$

5) $2(3i) - (5i)(-8 + 5i)$

6) $(4i)(-i)(2 - 5i)$

7) $\frac{4+i}{2-5i}$

8) $\frac{5}{-10i}$

9) $\frac{-2-9i}{-2+7i}$

10) $\frac{-3-10i}{5i}$



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for more
PRACTICE

1) $(7 + 3i)(7 + 8i)$

$25 + 77i$

2) $\frac{4-3i}{-4i}$

$\frac{3}{4} + i$

3) $(5 + 4i)^2$

$9 + 40i$

4) $\frac{2+4i}{14+4i}$

$\frac{11+12i}{53}$

5) $2(3i) - (5i)(-8 + 5i)$

$25 + 46i$

6) $(4i)(-i)(2 - 5i)$

$8 - 20i$

7) $\frac{4+i}{2-5i}$

$\frac{3}{29} + \frac{22i}{29}$

8) $\frac{5}{-10i}$

$\frac{i}{2}$

9) $\frac{-2-9i}{-2+7i}$

$-\frac{59}{53} + \frac{32i}{53}$

10) $\frac{-3-10i}{5i}$

$\frac{3i-10}{5}$