Name:

Date:

Multiplying and Dividing Complex Numbers

Simplify.

1) $(3+8i)(-2-i) =$

2) $(-1-8i)(6-5i) =$

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

4) $-8(2i)(-5+6i) =$

5) $(i+1)(i-1) =$

6) $\frac{4-8i}{6-5i} =$

7) $\frac{-4+4i}{4-6i} =$

8) $\frac{9+i}{-7i} =$

9) $-\frac{2}{2i} =$

10) $\frac{10}{10+5i} =$

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QUIZ ?

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Name:

Date:

Multiplying and Dividing Complex Numbers

Answers

Simplify.

1) $(3+8i)(-2-i) =$
$2-19i$

2) $(-1-8i)(6-5i) =$
$-46-43i$

3) $(-5+3i)(-3+2i) =$
$9-19i$

4) $-8(2i)(-5+6i) =$
$96+80i$

5) $(i+1)(i-1) =$
-2

6) $\frac{4-8i}{6-5i} =$
$\frac{64}{61}-\frac{28}{61}i$

7) $\frac{-4+4i}{4-6i} =$
$-\frac{10}{13}-\frac{2}{13}i$

8) $\frac{9+i}{-7i}$
$-\frac{1}{7}+\frac{9}{7}i$

9) $-\frac{2}{2i} =$
i

10) $\frac{10}{10+5i} =$
$\frac{4}{5}-\frac{2}{5}i$