



Multiplying and Dividing Complex Numbers

Name: _____

Date: _____

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



QUIZ ?

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Answers



Simplify.

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

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

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

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

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

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

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

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

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

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



QUIZ ?

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