

## Unit 5.2 Rationalize Denominator with Complex numbers Practice

Period \_\_\_\_\_

**Simplify. Write your answer as one fraction, (not as two fractions).**

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

$2i$

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

$\frac{7i}{4}$

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

$-2i$

4)  $-\frac{7}{9i}$

$\frac{7i}{9}$

5)  $\frac{1}{i}$

$-i$

6)  $\frac{1}{-i}$

$i$

7)  $\frac{-4}{-10i}$

$-\frac{2i}{5}$

8)  $-\frac{1}{8i}$

$\frac{i}{8}$

9)  $\frac{-8-2i}{-i}$

$-8i+2$

10)  $\frac{6+7i}{-3i}$

$\frac{6i-7}{3}$

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

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

12)  $\frac{9-4i}{10i}$

$\frac{-9i-4}{10}$

$$13) \frac{-2 - 10i}{-5i}$$

$$\frac{-2i + 10}{5}$$

$$14) \frac{9 - 2i}{-2i}$$

$$\frac{9i + 2}{2}$$

$$15) \frac{5 + 3i}{-5i}$$

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

$$16) \frac{10 + 9i}{-8i}$$

$$\frac{10i - 9}{8}$$

$$17) \frac{7 + 8i}{3 - 5i}$$

$$\frac{-19 + 59i}{34}$$

$$18) \frac{-2 - 2i}{3 + 7i}$$

$$\frac{-10 + 4i}{29}$$

$$19) \frac{-10 - 3i}{-4 - 3i}$$

$$\frac{49 - 18i}{25}$$

$$20) \frac{1 + 6i}{-10 + 10i}$$

$$\frac{5 - 7i}{20}$$

$$21) \frac{-9 + 10i}{1 + 4i}$$

$$\frac{31 + 46i}{17}$$

$$22) \frac{-3 - i}{-9 - 10i}$$

$$\frac{37 - 21i}{181}$$

$$23) \frac{6 + 10i}{-5 + 6i}$$

$$\frac{30 - 86i}{61}$$

$$24) \frac{4 + 4i}{-6 - 8i}$$

$$\frac{-14 + 2i}{25}$$