

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

## Rationalizing Imaginary Denominators

Simplify.

1)  $\frac{-9 - 4i}{5 + 3i}$

6)  $\frac{-4}{-i}$

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

7)  $\frac{-1 + 5i}{-3 + 7i}$

3)  $\frac{3 + 5i}{-2i}$

8)  $\frac{7}{-7i}$

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

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

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

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



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## Rationalizing Imaginary Denominators

Simplify.

$$1) \frac{-9 - 4i}{5 + 3i}$$
$$\frac{-57 + 7i}{34}$$

$$6) \frac{-4}{-i}$$
$$-4i$$

$$2) \frac{-7 - i}{5i}$$
$$\frac{-1 + 7i}{5}$$

$$7) \frac{-1 + 5i}{-3 + 7i}$$
$$\frac{19 - 4i}{29}$$

$$3) \frac{3 + 5i}{-2i}$$
$$\frac{-5 + 3i}{2}$$

$$8) \frac{7}{-7i}$$
$$i$$

$$4) \frac{10 + 7i}{-6 + i}$$
$$\frac{-53 - 52i}{37}$$

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

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

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

