

Name : _____

Score : _____

Teacher : _____

Date : _____

Rationalizing Imaginary Denominators

Simplify.

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

6) $\frac{-7 + 4i}{-3 - i}$

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

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

3) $\frac{2 + i}{-1 - 2i}$

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

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

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

5) $\frac{1 - i}{-4i}$

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



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Rationalizing Imaginary Denominators

Simplify.

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

$$6) \frac{-7 + 4i}{-3 - i}$$
$$\frac{17 - 19i}{10}$$

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

$$7) \frac{10 - i}{5i}$$
$$\frac{-1 - 10i}{5}$$

$$3) \frac{2 + i}{-1 - 2i}$$
$$\frac{-4 + 3i}{5}$$

$$8) \frac{2 + i}{-5 + 2i}$$
$$\frac{-8 - 9i}{29}$$

$$4) \frac{4 + 6i}{-6 - 7i}$$
$$\frac{-66 - 8i}{85}$$

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

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

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

