

Rationalizing Imaginary Denominators

Date_____ Period____

Simplify.

1) $\frac{2}{8i}$

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

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

4) $\frac{-1}{-9i}$

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

6) $\frac{6+8i}{9i}$

7) $\frac{4-9i}{-6i}$

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

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

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

11) $\frac{5i}{-2-6i}$

12) $\frac{8i}{-1+3i}$

$$13) \frac{1}{-8 - 5i}$$

$$14) \frac{i}{-2 - 8i}$$

$$15) \frac{4}{-3 - 6i}$$

$$16) \frac{-10 - 5i}{-6 + 6i}$$

$$17) \frac{-5 - 9i}{9 + 8i}$$

$$18) \frac{-4 + 10i}{3 + 4i}$$

$$19) \frac{-5 - 3i}{7 - 10i}$$

$$20) \frac{-3 - 7i}{7 + 10i}$$

$$21) \frac{-1 + i}{-5i}$$

$$22) \frac{-6 - i}{i}$$

$$23) \frac{2 + 5i}{-i}$$

$$24) \frac{-4 - 4i}{4i}$$

$$25) \frac{3}{-i}$$

$$26) \frac{a}{ib}$$

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Date_____ Period____

Simplify.

1) $\frac{2}{8i}$

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

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

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

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

$$\frac{-i}{}$$

4) $\frac{-1}{-9i}$

$$\frac{i}{9}$$

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

$$\frac{3i}{2}$$

6) $\frac{6+8i}{9i}$

$$\frac{-6i+8}{9}$$

7) $\frac{4-9i}{-6i}$

$$\frac{4i+9}{6}$$

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

$$\frac{-3i-10}{6}$$

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

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

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

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

11) $\frac{5i}{-2-6i}$

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

12) $\frac{8i}{-1+3i}$

$$\frac{-4i+12}{5}$$

$$13) \frac{1}{-8 - 5i}$$

$$\frac{-8 + 5i}{89}$$

$$15) \frac{4}{-3 - 6i}$$

$$\frac{-4 + 8i}{15}$$

$$17) \frac{-5 - 9i}{9 + 8i}$$

$$\frac{-117 - 41i}{145}$$

$$19) \frac{-5 - 3i}{7 - 10i}$$

$$\frac{-5 - 71i}{149}$$

$$21) \frac{-1 + i}{-5i}$$

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

$$23) \frac{2 + 5i}{-i}$$

$$2i - 5$$

$$25) \frac{3}{-i}$$

$$3i$$

$$14) \frac{i}{-2 - 8i}$$

$$\frac{-i - 4}{34}$$

$$16) \frac{-10 - 5i}{-6 + 6i}$$

$$\frac{5 + 15i}{12}$$

$$18) \frac{-4 + 10i}{3 + 4i}$$

$$\frac{28 + 46i}{25}$$

$$20) \frac{-3 - 7i}{7 + 10i}$$

$$\frac{-91 - 19i}{149}$$

$$22) \frac{-6 - i}{i}$$

$$6i - 1$$

$$24) \frac{-4 - 4i}{4i}$$

$$i - 1$$

$$26) \frac{a}{ib}$$

$$\frac{ia}{b}$$

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