

## Math Worksheets

### Rationalizing Imaginary Denominators

 Simplify.

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

$$2) \frac{-3}{-15i} =$$

$$3) \frac{-3}{-39i} =$$

$$4) \frac{24}{-3i} =$$

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

$$6) \frac{16}{-4i} =$$

$$7) \frac{14}{-6i} =$$

$$8) \frac{-17}{3i} =$$

$$9) \frac{4x}{5yi} =$$

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

$$11) \frac{5-11i}{-i} =$$

$$12) \frac{21+4i}{4i} =$$

$$13) \frac{8i}{-1+4i} =$$

$$14) \frac{10i}{-6+8i} =$$

$$15) \frac{-25-5i}{-5+5i} =$$

$$16) \frac{-7-2i}{3+1i} =$$

$$17) \frac{-12-6i}{8-6i} =$$

$$18) \frac{-14+7}{-7i} =$$

$$19) \frac{12-3i}{3i} =$$

$$20) \frac{-2-i}{4-3i} =$$

$$21) \frac{-11+4i}{-5i} =$$

$$22) \frac{8+2i}{-5-2i} =$$

$$23) \frac{-9-5i}{-8-2i} =$$

$$24) \frac{4i-1}{-5-2i} =$$

## Answers of Worksheets

### Rationalizing Imaginary Denominators

1)  $-i$

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

3)  $\frac{-1}{13}i$

4)  $8i$

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

6)  $4i$

7)  $\frac{7}{3}i$

8)  $\frac{17}{3}i$

9)  $-\frac{4x}{5y}i$

10)  $5 + 5i$

11)  $11 + 5i$

12)  $1 - \frac{21}{4}i$

13)  $\frac{32}{17} - \frac{8}{17}i$

14)  $\frac{4}{5} - \frac{3}{5}i$

15)  $2 + 3i$

16)  $-\frac{23}{10} + \frac{1}{10}i$

17)  $-\frac{3}{5} - \frac{6}{5}i$

18)  $-1 - 2i$

19)  $1 - 4i$

20)  $-\frac{1}{5} - \frac{2}{5}i$

21)  $-\frac{4}{5} - \frac{11}{5}i$

22)  $-\frac{44}{29} + \frac{6}{29}i$

23)  $\frac{41}{34} + \frac{11}{34}i$

24)  $-\frac{3}{29} - \frac{22}{29}i$