Elementary Algebra Skill

Simplifying Rational Expressions Containing Opposite Factors

Simplify.

1) $\dfrac{x-4}{4-x}$

2) $\dfrac{3-y}{y-3}$

3) $\dfrac{x+2}{2+x}$

4) $\dfrac{-x-4}{4+x}$

5) $\dfrac{2y-3}{3-2y}$

6) $\dfrac{6x-7y}{7y-6x}$

7) $\dfrac{2a-4}{2-a}$

8) $\dfrac{t-5}{15-3t}$

9) $\dfrac{ab-4b}{4c-ac}$

10) $\dfrac{b^2-b}{4-4b}$

11) $\dfrac{y^2-y-2}{4-y^2}$

12) $\dfrac{25-z^2}{z^2-10z+25}$

Answers to Simplifying Rational Expressions Containing Opposite Factors

1) -1

2) -1

3) 1

4) -1

5) -1

6) -1

7) -2

8) $-\dfrac{1}{3}$

9) $-\dfrac{b}{c}$

10) $-\dfrac{b}{4}$

11) $-\dfrac{y+1}{y+2}$

12) $-\dfrac{5+z}{z-5}$