

Name:

Date:

## SIMPLIFY RATIONAL EXPRESSIONS Worksheet - Problems

No.	Problem	Answer Key
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1. Simplify:  $\frac{24x^3y^5}{16x^4y^2}$

2. Simplify:  $\frac{5}{5x-10}$

3. Simplify:  $\frac{a-b}{b-a}$

4. Simplify:  $\frac{x^2-9}{x-3}$

5. Simplify:  $\frac{2x-10}{3x-6}$

6. Simplify:  $\frac{x^2-9}{x^2+5x+6}$

7. Simplify:  $\frac{y^2-5y-6}{y^2-1}$

8. Simplify:  $\frac{x^2-x-20}{3x-15}$

9. Simplify:  $\frac{7+20x-3x^2}{2x^2-11x-21}$

10. Simplify:  $\frac{2a^3-16}{4a^2-12a+8}$

11. Simplify:  $\frac{2m^3-2m^2-12m}{m^2-5m+6}$

12. Simplify:  $\frac{x^2-3x+ax-3a}{x^2-ax-3x+3a}$

13. Simplify:  $\frac{12y-2xy-2x^2y}{6y-4xy-2x^2y}$

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## SIMPLIFY RATIONAL EXPRESSIONS Worksheet - Answers

No.	Problem	Answer Key
1.	Simplify: $\frac{24x^3y^5}{16x^4y^2}$	$\frac{3y^3}{2x}$
2.	Simplify: $\frac{5}{5x-10}$	$\frac{1}{x-2}$
3.	Simplify: $\frac{a-b}{b-a}$	-1
4.	Simplify: $\frac{x^2-9}{x-3}$	$x+3$
5.	Simplify: $\frac{2x-10}{3x-6}$	$\frac{2x-10}{3x-6}$
6.	Simplify: $\frac{x^2-9}{x^2+5x+6}$	$\frac{x-3}{x+2}$
7.	Simplify: $\frac{y^2-5y-6}{y^2-1}$	$\frac{y-6}{y-1}$
8.	Simplify: $\frac{x^2-x-20}{3x-15}$	$\frac{x+4}{3}$
9.	Simplify: $\frac{7+20x-3x^2}{2x^2-11x-21}$	$-\frac{3x+1}{2x+3}$
10.	Simplify: $\frac{2a^3-16}{4a^2-12a+8}$	$\frac{a^2+2a+4}{2(a-1)}$
11.	Simplify: $\frac{2m^3-2m^2-12m}{m^2-5m+6}$	$\frac{2m(m+2)}{m-2}$
12.	Simplify: $\frac{x^2-3x+ax-3a}{x^2-ax-3x+3a}$	$\frac{x+a}{x-a}$
13.	Simplify: $\frac{12y-2xy-2x^2y}{6y-4xy-2x^2y}$	$\frac{2-x}{1-x}$