NAME

Module 15 Simplifying Rational Expressions
Lesson 2 Simplifying Rational Expressions

Simplify the following rational expressions.

1. $\frac{32m^2}{12m}$ $\frac{8m}{3}$
2. $\frac{22a^2b^2c^4}{11a^4b^2c^8}$ $\frac{2}{a^2c^4}$
3. $\frac{c+4}{c}$ $\frac{c+4}{c}$
4. $\frac{5r^2s^4t}{10r^4st^3}$ $\frac{s^3}{2r^2t^2}$
5. $\frac{2g^3+6g}{g^2+3}$ $2g$
6. $\frac{n^2-4n}{5n-20}$ $\frac{n}{5}$
7. $\frac{8y^2+12y}{4y+6}$ $2y$
8. $\frac{j-4}{4-j}$ -1
9. $\frac{2y^2-6y}{18-6y}$ $\frac{-y}{3}$
10. $\frac{20x-4x^2}{x^2-5x}$ -4
11. $\frac{3p+12}{9p+36}$ $\frac{1}{3}$
12. $\frac{r^2-3r+2}{r^2+4r-5}$ $\frac{r-2}{r+5}$
13. $\frac{12p+24}{18p+36}$ $\frac{2}{3}$
14. $\frac{4j^3-9j}{6j-9}$ $\frac{2j^2+3j}{3}$
15. $\frac{j^2-4j-45}{j^2-6j-27}$ $\frac{j+5}{j+3}$
16. $\frac{2m^2+4m-70}{m^2-m-20}$ $\frac{2m+14}{m+4}$
17. $\frac{2k^3-32k}{k^2+2k-24}$ $\frac{2k^2+8k}{k+6}$
18. $\frac{5x^2+17x-12}{30x^2-13x-3}$ $\frac{x+4}{6x+1}$
19. $\frac{3b^2-2b-8}{3b^2-11b-20}$ $\frac{b-2}{b-5}$
20. $\frac{4k^3+14k^2+10k}{20k^2+54k+10}$ $\frac{k^2+k}{5k+1}$