NAME

Module 12 Simplifying Algebraic Expressions by Factoring Polynominals
Lesson 7 Dividing Polynomials Using Factoring

additional practice

Simplify by factoring.

1. $\frac{b^2 - 8b - 20}{b + 2}$ **$b - 10$**
2. $\frac{f^2 + 7f + 6}{f + 6}$ **$f + 1$**
3. $\frac{d^2 - 17d + 72}{d - 9}$ **$d - 8$**
4. $\frac{p^2 + 5p - 50}{p - 5}$ **$p + 10$**
5. $\frac{x^2 - 12x + 27}{x - 3}$ **$x - 9$**
6. $\frac{r^2 + 20r + 100}{r + 10}$ **$r + 10$**
7. $\frac{k^2 - 64}{k + 8}$ **$k - 8$**
8. $\frac{n^2 - 20n + 96}{n - 8}$ **$n - 12$**
9. $\frac{3d^2 + 9d - 30}{d - 2}$ **$3(d + 5)$ or $3d + 15$**
10. $\frac{6z^2 + 29z + 28}{2z + 7}$ **$3z + 4$**
11. $\frac{9y^2 + 30y + 25}{3y + 5}$ **$3y + 5$**
12. $\frac{2b^2 - 45b + 100}{b - 20}$ **$2b - 5$**
13. $\frac{4r^2 - 8r - 252}{4r + 28}$ **$r - 9$**
14. $\frac{3a^2 + 18a + 24}{3a + 6}$ **$a + 4$**
15. $\frac{4x^2 + 36x + 80}{4x + 20}$ **$x + 4$**
16. $\frac{5t^2 - 40t - 165}{5t + 15}$ **$t - 11$**
17. $\frac{3c^2 - 2c - 8}{4c - 8}$ **$\frac{3c + 4}{4}$**
18. $\frac{3h^2 - 11h - 20}{2h - 10}$ **$\frac{3h + 4}{2}$**
19. $\frac{2k^2 - 5k - 7}{2k + 2}$ **$\frac{2k - 7}{2}$**
20. $\frac{4x^2 + 7x - 2}{4x + 8}$ **$\frac{4x - 1}{4}$**
21. $\frac{5j^2 - 27j - 18}{3j - 18}$ **$\frac{5j + 3}{3}$**
22. $\frac{12x^2 + 28x + 15}{6x + 9}$ **$\frac{6x + 5}{3}$**
23. $\frac{4x^2 - 9}{6x - 9}$ **$\frac{2x + 3}{3}$**
24. $\frac{16m^2 - 49}{12m - 21}$ **$\frac{4m + 7}{3}$**