

Simplifying Rational Expressions—Practice

Simplify:

- | | | | |
|-------------------------------------|---|---------------------------------------|-----------|
| 1. $\frac{8x^2}{12x^4}$ | 2. $\frac{24x^2y}{32xy^3}$ | 3. $\frac{(x+1)^2}{(x+1)^5}$ | 1. _____ |
| | | | 2. _____ |
| | | | 3. _____ |
| 4. $\frac{(3x-2)^6}{(3x-2)^4}$ | 5. $\frac{2n-3}{3-2n}$ | 6. $\frac{15y^2(y+3)}{20y^3(y+3)}$ | 4. _____ |
| | | | 5. _____ |
| | | | 6. _____ |
| 7. $\frac{15y(y+1)}{45y^2(y+1)}$ | 8. $\frac{24x^3(4-x)}{18x(4-x)}$ | 9. $\frac{6x^2(2-x)}{12x(2-x)}$ | 7. _____ |
| | | | 8. _____ |
| | | | 9. _____ |
| 10. $\frac{12x^3(5-2x)}{18x(2x-5)}$ | 11. $\frac{a^2+6a}{ac+6c}$ | 12. $\frac{x^2+4x}{3x+12}$ | 10. _____ |
| | | | 11. _____ |
| | | | 12. _____ |
| 13. $\frac{6-8x}{4x^2-3x}$ | 14. $\frac{x^2+2x-15}{x^2-10x+21}$ | 15. $\frac{x^2-2x-3}{x^2-5x-6}$ | 13. _____ |
| | | | 14. _____ |
| | | | 15. _____ |
| 16. $\frac{x^2-7x+12}{x^2-x-12}$ | 17. $\frac{x^2-3x-10}{x^2-6x+5}$ | 18. $\frac{x^2-8x+16}{x^2-9x+20}$ | 16. _____ |
| | | | 17. _____ |
| | | | 18. _____ |
| 19. $\frac{x^2-7x+10}{x^2-4x-5}$ | 20. $\frac{x^2+6x+9}{x^2+2x-3}$ | 21. $\frac{x^2-2x-24}{16-x^2}$ | 19. _____ |
| | | | 20. _____ |
| | | | 21. _____ |
| 22. $\frac{9-y^2}{y^2+2y-15}$ | 23. $\frac{3x^2+18x^2-21x}{x^3+5x^2-14x}$ | 24. $\frac{2x^2-18x}{4x^3-32x^2-36x}$ | 22. _____ |
| | | | 23. _____ |
| | | | 24. _____ |
| 25. $\frac{5x^2-11x+2}{5x^2-7x-6}$ | 26. $\frac{2x^2-7x+3}{2x^2+9x-5}$ | 27. $\frac{x^2+2x-24}{12-4x-x^2}$ | 25. _____ |
| | | | 26. _____ |
| | | | 27. _____ |
| 28. $\frac{2x^2-8}{x^3+4x-12}$ | 29. $\frac{2x^2-9x+7}{x^2+2x-3}$ | 30. $\frac{8x^2-14x+6}{4x-3}$ | 28. _____ |
| | | | 29. _____ |
| | | | 30. _____ |

Answer Guide For Math Expressions

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