

# Homework p.577: 13, 14, 15, 17, 25, 29-33 (odds)

**SIMPLIFYING** Simplify the rational expression, if possible.

$$13. \frac{x^2 - 36}{x^2 + 12x + 36}$$

$$14. \frac{3x^3 + 6x^2 + 12x}{x^3 - 8}$$

$$15. \frac{8x^2 + 10x - 3}{6x^2 + 13x + 6}$$

$$17. \frac{x^3 - 5x^2 - 3x + 15}{x^2 - 8x + 15}$$

**MULTIPLYING** Multiply the expressions. Simplify the result.

$$25. \frac{48x^5y^3}{y^4} \cdot \frac{x^2y}{6x^3y^2}$$

$$29. \frac{x + 5}{4x - 16} \cdot \frac{2x^2 - 32}{x^2 - 25}$$

$$31. \frac{x^2 - 3x - 10}{x^2 - 2x - 15} \cdot (x^2 + 10x + 21)$$

$$33. \frac{4x^2 + 20x}{x^3 + 4x^2} \cdot (x^2 + 8x + 16)$$