

7.3 Notetaking with Vocabulary (continued)**Extra Practice**

In Exercises 1–4, simplify the expression, if possible.

1. $\frac{2x^3 - 8x^2}{6x^2}$

2. $\frac{5xy^3 - 2x^2y^2}{x^2y^2}$

3. $\frac{x^2 - 5x + 4}{x^2 - 2x + 1}$

4. $\frac{x^3 + 3x^2}{x^2 - 5x - 24}$

In Exercises 5–10, find the product or the quotient.

5. $\frac{3xy}{xy^2} \cdot \frac{y}{2x}$

6. $\frac{x + y}{7xy} \div \frac{4x}{y}$

7. $\frac{x(x + 1)}{x - 2} \div \frac{(x + 1)(x - 6)}{(x - 6)(x - 9)}$

8. $\frac{x^2 - 2x - 3}{x^2 - 1} \cdot \frac{x^2 - 2x - 63}{x^2 + 4x - 21}$

9. $\frac{x^2 - 2x}{x + 7} \cdot \frac{x^3 + 8}{x^3 - 4x}$

10. $\frac{x^2 + 2x - 15}{x^2 - 3x - 40} \div \frac{x^2 + 8x - 9}{x^2 + x - 72}$