

Multiplying and Dividing

Name: _____

Homework

Determine the produce or quotient, list excluded values.

1. $\frac{x^2+7x+12}{12} \cdot \frac{4}{x+4}$

2. $\frac{x^2-4}{2x-4} \cdot \frac{2}{x+2}$

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

4. $\frac{x^2-7x+12}{x^2-x-6} \div \frac{x^2-16}{x^2+x-2}$

5. $\frac{x^2+6x}{6} \cdot \frac{x^3+6}{x^3+6x^2}$

6. $\frac{x^2-9}{x^2+x} \div \frac{x-3}{x^2-1}$

$$7. \frac{x^2 + 2xy + y^2}{x^2 - y^2} \div \frac{x + y}{x - y}$$

$$8. \frac{\frac{x^2}{x^2 - 25x^2}}{\frac{x}{x - 5x}}$$

$$9. \frac{x^2 + x - 2}{x^2 - 4x - 12} \bullet \frac{x^2 - 5x - 6}{x^2 - 2x + 1}$$

$$10. \frac{\frac{(x+3)^2}{x^2 - 16}}{\frac{x+3}{x+4}}$$

$$11. \frac{x^2 + 3x - 10}{x^2 - 7x + 6} \bullet \frac{x^2 + 2x - 3}{x^2 + x - 6}$$