

Name _____
Mr. Schlansky

Date _____
Algebra II

Multiplying and Dividing Rational Expressions

1. $\frac{x^2 - 2x - 15}{2y - 8} \cdot \frac{12 - 3y}{x^2 - 25}$

2. $\frac{24a^3b^2}{7c^3} \cdot \frac{21c^2}{12ab}$

3. $\frac{y^2 - 81}{(y + 9)^2} \cdot \frac{10y + 90}{5y - 45}$

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

$$5. \frac{15y^3}{2x^2 + 3x - 2} \bullet \frac{1 - 4x^2}{10y}$$

$$6. \frac{x^2 - 5x + 4}{2x} \div \frac{2x - 2}{8x^2}$$

$$7. \frac{\frac{b^2 - b - 6}{2b}}{\frac{b^2 - 4}{b^2}}$$

$$8. \frac{\frac{x^2 - x - 2}{21 - 7z}}{\frac{x^2 - 6x + 8}{z - 3}}$$

$$9. \frac{\frac{x^2 + 5x + 6}{3y^2}}{\frac{2x + 4}{9y}}$$

$$10. \frac{x^2 + 9x - 22}{x^2 - 121} \div (2 - x)$$