

NAME _____ DATE _____ PER _____ SCORE _____

Rational Expressions #4**1-2: Divide using long division. (12.3)**

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

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

1. _____

2. _____

3-4: Simplify. (12.4)

3.
$$\frac{12x^5y^2}{8x^3y^3}$$

4.
$$\frac{10x - 40}{2x - 8}$$

3. _____

4. _____

5-6: Multiply or Divide and simplify. (12.5)

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

6.
$$\frac{x^2 - 25}{2x^2 + 10x} \div \frac{x^2 - x - 2}{4x^2 + 4x}$$

5. _____

6. _____

7-8: Add or Subtract and simplify. (12.6)

7.
$$\frac{2x}{x+1} + \frac{3x+2}{3x+3}$$

8.
$$\frac{5}{x^2 + 5x + 6} - \frac{4}{x+3}$$

7. _____

8. _____