

Multiplying and Dividing Rational Expressions

Name: _____

1.

$$\frac{(x+3)(y-7)}{(x+2)(x-4)} \div \frac{(x-7)}{x^2+2x+1}$$

2.

$$\frac{5x-10}{x+3} \div \frac{3x-6}{2x+6}$$

3.

$$\frac{2x(x+5)}{4-x} \cdot \frac{5x(x-7)}{3x+7} \cdot \frac{(4-x)(3x+7)}{10x(x+5)}$$

4.

$$\frac{2y+10}{x} \cdot \frac{xy}{y^2+6y+5}$$

5.

$$\frac{a-4}{a^2-2a-8} \div \frac{1}{a-5}$$

6.

$$\frac{b^2-2b-15}{8b+20} \div \frac{2}{4b+10}$$

7.

$$\frac{3x^2-25x-18}{27x+18} \div \frac{5x-3}{5x^2-33x+18}$$

8.

$$\frac{7a^2}{7a^3+56a^2} \div \frac{2}{a^2+7a-8}$$

9.

$$\frac{x^2+10x+16}{x^2+6x+8} \div \frac{1}{x+4}$$

10.

$$\frac{10b^2+42b+36}{6b^2-2b-60} \div \frac{40b+48}{3b^2-13b+10}$$