

**Rational Functions 1 –Multiply & Divide  
Homework #11**

Name \_\_\_\_\_  
Per \_\_\_\_\_ Date \_\_\_\_\_

State the excluded values and simplify.

1)  $\frac{-42x^3}{36x^2}$

2)  $\frac{15}{12x-9}$

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

4)  $-\frac{x^2-16}{x-9} \cdot \frac{x^2-8x-9}{x+4}$

$$5) \frac{x+3}{x+2} \div \frac{(x-1)^2}{(x-1)(x+3)}$$

$$6) \frac{x^2+7x-8}{x+8} \div \frac{9x-9}{x+5}$$

$$7) \frac{6x+27}{18x^2+36x} \div \frac{16x+72}{2x+4}$$

$$8) -\frac{x^2-10x+25}{10x-100} \cdot \frac{x-10}{45-9x}$$