

Topic 9.3
Multiplying and Dividing Rational Expressions
Homework

Name: _____

Date: _____

Simplify the expression.

1. $\frac{8xy^2}{6y^5} \div$

2. $\frac{8x-16}{(x-2)^2}$

3. $\frac{p^3}{4h} \div \frac{p^7}{8h^4}$

4. $\frac{2x^3}{7y^4} \div \frac{6y^3}{4x^5}$

5. $\frac{12bc^2}{5d^3} \cdot \frac{15d^7}{(bc)^2}$

6. $\frac{2x+6}{5x-15} \cdot \frac{10x-30}{4x+6}$

7. $\frac{x^2-16}{4x^2+8x} \div \frac{(x+4)^2}{16}$

8. $\frac{(x-9)^2}{x^2+3} \div \frac{x^2-81}{x^4+5x^2+6}$