

Using the Quotient Rule-Difficult Worksheet 1

Name: _____ Date: _____

Directions: Follow the quotient to solve for the following. Write your answer as a single exponent.

$$1. \left(\frac{2}{3}\right)^{-4} \div \left(\frac{2}{3}\right)^{-7}$$

$$6. \frac{\left(\frac{8}{9}\right)^{-2}}{\left(\frac{8}{9}\right)^{-6}} \div \frac{\left(\frac{8}{9}\right)^{-8}}{\left(\frac{8}{9}\right)^{-4}}$$

$$2. \frac{(-5)^{-6}}{(-5)^2} \div \frac{(-5)^{-8}}{(-5)^{-3}}$$

$$7. \frac{\left(\frac{3}{8}\right)^{10}}{\left(\frac{3}{8}\right)^{-5}} \div \frac{\left(\frac{3}{8}\right)^7}{\left(\frac{3}{8}\right)^6}$$

$$3. \frac{\left(\frac{4}{7}\right)^5}{\left(\frac{4}{7}\right)^{-9}} \div \left(\frac{4}{7}\right)^{-3}$$

$$4. (-7)^{-4} \div (-7)^{-10}$$

$$8. \frac{6^{-3}}{6^{-7}} \div \frac{6^4}{6^2}$$

$$5. \left(\frac{5}{9}\right)^3 \div \left(\frac{5}{9}\right)^{-12}$$

