

Name _____

Date _____

Pd _____

LAWS OF EXPONENTS: QUOTIENT RULE

Directions: Simplify each expression using the power rule.

#1

$$\frac{x^8}{x^2}$$

#2

$$\frac{x^{16}}{x^{12}}$$

#3

$$\frac{x^{25}}{x^{14}}$$

#4

$$\frac{8x^6}{2x^4}$$

#5

$$\frac{-20x^{11}}{4x^6}$$

#6

$$\frac{100x^{25}}{-25x^{10}}$$

#7

$$\frac{36x^5}{4x}$$

#8

$$\frac{18x^{21}}{6x^7}$$

Dividing Exponents (A)

Simplify each expression.

1. $\frac{4^6}{4^2}$

2. $\frac{4^8}{4^2}$

3. $\frac{9^7}{9^6}$

4. $\frac{8^6}{8^1}$

5. $\frac{3^4}{3^4}$

6. $\frac{7^6}{7^1}$

7. $\frac{7^2}{7^1}$

8. $\frac{9^8}{9^4}$

9. $\frac{4^5}{4^4}$

10. $\frac{8^3}{8^3}$