

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Hour: \_\_\_\_\_

## Power Rules Study Guide

Simplify the powers. Leave no negative exponents. Write answers in STANDARD form (meaning multiply out).

1)  $7^3$

4)  $\frac{7^{-2}}{2^{-3}}$

2)  $6^{-2}$

5)  $\frac{5^{-2}}{3^2}$

3)  $\frac{1}{4^{-2}}$

6)  $\frac{2^3}{10^{-2}}$

Simplify the powers. Leave no negative exponents. Write answers in POWER form.

7)  $c^4 \cdot c^9$

8)  $c^{-4} \cdot c^9$

9)  $c^4 \cdot c^{-9}$

10)  $c^{-4} \cdot c^{-9}$

11)  $c^2 \cdot c^{-2}$

$$12) \frac{p^{10}}{p^3}$$

$$13) \frac{p^3}{p^{10}}$$

$$14) \frac{p^{-10}}{p^3}$$

$$15) \frac{p^{10}}{p^{-3}}$$

$$16) \frac{p^{-10}}{p^{-3}}$$

$$17) \frac{p^8}{p^8}$$

$$18) (m^2)^7$$

$$19) (m^{-3})^4$$

$$20) (m^8)^{-1}$$

$$21) (m^{-5})^{-3}$$

$$22) (m^7)^0$$