Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_

# WS 7-3

# Division Property of Exponents

# Simplify the expression.

# $\frac{5^{6}}{5^{2}}$

1. $\frac{5^{4}}{5^{7}}$

# $\frac{(-4)^{3}}{(-4)}^{}$

Simplify the expression.

# $\frac{2^{5}}{2^{2}}$

# $\frac{3^{4}3^{2}}{3^{6}}$

1. $\frac{7^{0}}{7^{2}}$

7. $\frac{x^{-2}}{x}$

8. $\frac{x^{3}}{x^{7}}$

9. $x^{0}∙\frac{1}{x^{2}}$

10. $(3x)^{-3}$

11. $(\frac{1}{xy})^{3}$

12. $\frac{2xy}{x^{2}}$

Simplify, then evaluate the expression when a=1 and b=3.

13. $\frac{(b^{0})^{-4}}{a}$ 16. $\frac{(ab)^{-2}}{b}$

14. $\frac{ab^{3}}{b}$ 17. $((2x)^{2})^{-3}$

15. $\frac{a^{-1}}{b^{3}}∙b^{4}$ 18. $\frac{b^{2}}{ab^{-4}}$