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

# WS 7-2

# Zero and Negative Exponents

# Evaluate the expression.

# $2^{-4}$

1. $5^{4}∙5^{-7}$

# $(-4^{3})^{-1}$

# $0^{8}$

# $3^{-6}∙3^{6}$

1. $7^{0}∙2^{-3}$

# Rewrite the expression with positive exponents.

7. $x^{-2}$

8. $x^{-5}y^{-2}$

9. $6^{0}x$

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

11. $x^{-2}y^{0}$

12. $(5x^{-2})^{3}$

Simplify.

13. $(3^{0})^{-4}$ 16. $(4∙8)^{-2}$

14. $5^{-5}∙5^{3}$ 17. $((2x)^{2})^{-3}$

15. $(7x^{0})^{-2}$ 18. $((\frac{1}{2}x)^{-5})^{-2}$

Simplify, then evaluate the expression when a=2 and b=1.

19. $a^{-3}a^{0}$ 23. -($b^{-3})$

20. $(a∙b)^{-2}$ 24. $(a^{-3}∙a^{1})^{-3}$

21. $(ab^{-2})^{5}$ 25. $(a^{-2}∙b^{-3})^{0}$