

Algebra 1 B

Unit 8 Objectives 6 & 7 Practice

Name _____

Period _____ **Date** _____

Simplify each expression.

1. 12^{-2}

2. $8^5 \cdot 8^{-7}$

3. $\left(\frac{2}{5}\right)^{-3}$

4. $(-10)^0 \cdot \frac{1}{3^{-3}}$

5. $6^{13}(6^{-10})$

6. $11^{-2} \cdot 5^2$

7. $(21^{-8})(21^8)$

8. $-9 \cdot (-9)^{-3}$

9. $(5^3)^{-1}$

10. $10^{-3} \cdot 20^0$

11. $(-3^{-1})^{-5}$

12. $(-7^2)(-7^{-3})$

Rewrite each expression with positive exponents. Simplify if necessary.

13. $14x^{-5}$

14. $\frac{4}{4^{-2}x^{-7}}$

15. $x^{-10}y^8$

16. $8x^{-8}y^{-8}$

17. $\frac{-6x^2}{18x^{-3}y^9}$

18. $(-11)^{-2}y^0$

19. $(7^{-1}x^8)^{-2}$

20. $(4x^{-4}y^{-12})^{-3}$

21. $\frac{48x^{-2}y^{-6}}{-52x^9y^{-2}}$

22. $\left(\frac{8x^4}{16x^2}\right)^{-3}$

23. $\left(\frac{-2x^{-6}}{x^{-6}}\right)^{-5}$

24. $\frac{(-2x^5)^{-3}}{-x^{-2}}$